

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	308	neohesperidin	US-PGPUB; USPAT	ADJ	OFF	2006/04/19 11:43
L2	7	1 near8 (produc\$10 or synthes\$10)	US-PGPUB; USPAT	ADJ	OFF	2006/04/19 11:47
L3	56	hesperidinase\$1	US-PGPUB; USPAT	ADJ	OFF	2006/04/19 12:23
L4	58	rhamnosyltransferase\$1 or rhamnosyl transferase\$1	US-PGPUB; USPAT	ADJ	OFF	2006/04/19 12:24

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:26:18 ON 19 APR 2006

=> fil .bec,fsta,caba,agricola
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS, FSTA, CABA, AGRICOLA'
ENTERED AT 13:26:53 ON 19 APR 2006
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

14 FILES IN THE FILE LIST

=> s neohesperidin

FILE 'MEDLINE'

L1 75 NEOHESPERIDIN

FILE 'SCISEARCH'

L2 138 NEOHESPERIDIN

FILE 'LIFESCI'

L3 34 NEOHESPERIDIN

FILE 'BIOTECHDS'

L4 8 NEOHESPERIDIN

FILE 'BIOSIS'

L5 147 NEOHESPERIDIN

FILE 'EMBASE'

L6 111 NEOHESPERIDIN

FILE 'HCAPLUS'

L7 563 NEOHESPERIDIN

FILE 'NTIS'

L8 3 NEOHESPERIDIN

FILE 'ESBIOBASE'

L9 30 NEOHESPERIDIN

FILE 'BIOTECHNO'

L10 12 NEOHESPERIDIN

FILE 'WPIDS'

L11 97 NEOHESPERIDIN

FILE 'FSTA'

L12 179 NEOHESPERIDIN

FILE 'CABA'

L13 84 NEOHESPERIDIN

FILE 'AGRICOLA'

L14 43 NEOHESPERIDIN

TOTAL FOR ALL FILES

L15 1524 NEOHESPERIDIN

=> s 115(10a)(produc? or synthes?)

FILE 'MEDLINE'

1300144 PRODUC?

504896 SYNTHES?
 L16 5 L1 (10A) (PRODUC? OR SYNTHES?)
 FILE 'SCISEARCH'
 1834400 PRODUC?
 906957 SYNTHES?
 L17 10 L2 (10A) (PRODUC? OR SYNTHES?)
 FILE 'LIFESCI'
 519651 PRODUC?
 142720 SYNTHES?
 L18 4 L3 (10A) (PRODUC? OR SYNTHES?)
 FILE 'BIOTECHDS'
 223828 PRODUC?
 33917 SYNTHES?
 L19 3 L4 (10A) (PRODUC? OR SYNTHES?)
 FILE 'BIOSIS'
 1719234 PRODUC?
 650549 SYNTHES?
 L20 16 L5 (10A) (PRODUC? OR SYNTHES?)
 FILE 'EMBASE'
 1244113 PRODUC?
 616948 SYNTHES?
 L21 4 L6 (10A) (PRODUC? OR SYNTHES?)
 FILE 'HCAPLUS'
 4233651 PRODUC?
 932206 PRODN
 4684691 PRODUC?
 (PRODUC? OR PRODN)
 1524341 SYNTHES?
 L22 40 L7 (10A) (PRODUC? OR SYNTHES?)
 FILE 'NTIS'
 371025 PRODUC?
 42619 SYNTHES?
 L23 1 L8 (10A) (PRODUC? OR SYNTHES?)
 FILE 'ESBIOBASE'
 588907 PRODUC?
 198599 SYNTHES?
 L24 0 L9 (10A) (PRODUC? OR SYNTHES?)
 FILE 'BIOTECHNO'
 394590 PRODUC?
 170699 SYNTHES?
 L25 2 L10 (10A) (PRODUC? OR SYNTHES?)
 FILE 'WPIDS'
 2350265 PRODUC?
 132016 SYNTHES?
 L26 7 L11 (10A) (PRODUC? OR SYNTHES?)
 FILE 'FSTA'
 296240 PRODUC?
 12259 SYNTHES?
 L27 18 L12 (10A) (PRODUC? OR SYNTHES?)
 FILE 'CABA'
 1074652 PRODUC?
 101430 SYNTHES?
 L28 6 L13 (10A) (PRODUC? OR SYNTHES?)

```
FILE 'AGRICOLA'
      384830 PRODUC?
      47073 SYNTHES?
L29      7 L14(10A) (PRODUC? OR SYNTHES?)
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TOTAL FOR ALL FILES
L30      123 L15(10A) (PRODUC? OR SYNTHES?)
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=> s hesperidinase#
FILE 'MEDLINE'
L31      16 HESPERIDINASE#
```

```
FILE 'SCISEARCH'
L32      13 HESPERIDINASE#
```

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FILE 'LIFESCI'
L33      4 HESPERIDINASE#
```

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FILE 'BIOTECHDS'
L34      14 HESPERIDINASE#
```

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FILE 'BIOSIS'
L35      25 HESPERIDINASE#
```

```
FILE 'EMBASE'
L36      14 HESPERIDINASE#
```

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FILE 'HCAPLUS'
L37      89 HESPERIDINASE#
```

```
FILE 'NTIS'
L38      0 HESPERIDINASE#
```

```
FILE 'ESBIOBASE'
L39      7 HESPERIDINASE#
```

```
FILE 'BIOTECHNO'
L40      5 HESPERIDINASE#
```

```
FILE 'WPIDS'
L41      23 HESPERIDINASE#
```

```
FILE 'FSTA'
L42      16 HESPERIDINASE#
```

```
FILE 'CABA'
L43      15 HESPERIDINASE#
```

```
FILE 'AGRICOLA'
L44      4 HESPERIDINASE#
```

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TOTAL FOR ALL FILES
L45      245 HESPERIDINASE#
```

```
=> s rhamnosyltransferase# or rhamnosyl transferase#
FILE 'MEDLINE'
      48 RHAMNOSYLTRANSFERASE#
      206 RHAMNOSYL
      57666 TRANSFERASE#
      8 RHAMNOSYL TRANSFERASE#
        (RHAMNOSYL(W)TRANSFERASE#)
L46      53 RHAMNOSYLTRANSFERASE# OR RHAMNOSYL TRANSFERASE#

FILE 'SCISEARCH'
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    49 RHAMNOSYLTRANSFERASE#
    270 RHAMNOSYL
45526 TRANSFERASE#
    10 RHAMNOSYL TRANSFERASE#
        (RHAMNOSYL (W) TRANSFERASE#)
L47      59 RHAMNOSYLTRANSFERASE# OR RHAMNOSYL TRANSFERASE#

FILE 'LIFESCI'
    36 RHAMNOSYLTRANSFERASE#
    67 "RHAMNOSYL"
14438 TRANSFERASE#
    7 RHAMNOSYL TRANSFERASE#
        ("RHAMNOSYL" (W) TRANSFERASE#)
L48      42 RHAMNOSYLTRANSFERASE# OR RHAMNOSYL TRANSFERASE#

FILE 'BIOTECHDS'
    11 RHAMNOSYLTRANSFERASE#
    28 RHAMNOSYL
3968 TRANSFERASE#
    4 RHAMNOSYL TRANSFERASE#
        (RHAMNOSYL (W) TRANSFERASE#)
L49      15 RHAMNOSYLTRANSFERASE# OR RHAMNOSYL TRANSFERASE#

FILE 'BIOSIS'
    54 RHAMNOSYLTRANSFERASE#
    419 RHAMNOSYL
77318 TRANSFERASE#
    22 RHAMNOSYL TRANSFERASE#
        (RHAMNOSYL (W) TRANSFERASE#)
L50      72 RHAMNOSYLTRANSFERASE# OR RHAMNOSYL TRANSFERASE#

FILE 'EMBASE'
    34 RHAMNOSYLTRANSFERASE#
    161 "RHAMNOSYL"
41631 TRANSFERASE#
    4 RHAMNOSYL TRANSFERASE#
        ("RHAMNOSYL" (W) TRANSFERASE#)
L51      37 RHAMNOSYLTRANSFERASE# OR RHAMNOSYL TRANSFERASE#

FILE 'HCAPLUS'
    93 RHAMNOSYLTRANSFERASE#
    839 RHAMNOSYL
53506 TRANSFERASE#
    22 RHAMNOSYL TRANSFERASE#
        (RHAMNOSYL (W) TRANSFERASE#)
L52      107 RHAMNOSYLTRANSFERASE# OR RHAMNOSYL TRANSFERASE#

FILE 'NTIS'
    0 RHAMNOSYLTRANSFERASE#
    0 RHAMNOSYL
1337 TRANSFERASE#
    0 RHAMNOSYL TRANSFERASE#
        (RHAMNOSYL (W) TRANSFERASE#)
L53      0 RHAMNOSYLTRANSFERASE# OR RHAMNOSYL TRANSFERASE#

FILE 'ESBIOBASE'
    37 RHAMNOSYLTRANSFERASE#
    119 RHAMNOSYL
35349 TRANSFERASE#
    5 RHAMNOSYL TRANSFERASE#
        (RHAMNOSYL (W) TRANSFERASE#)
L54      42 RHAMNOSYLTRANSFERASE# OR RHAMNOSYL TRANSFERASE#

FILE 'BIOTECHNO'
    28 RHAMNOSYLTRANSFERASE#

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51 RHAMNOSYL
16723 TRANSFERASE#
4 RHAMNOSYL TRANSFERASE#
(RHAMNOSYL(W)TRANSFERASE#)
L55 32 RHAMNOSYLTRANSFERASE# OR RHAMNOSYL TRANSFERASE#

FILE 'WPIDS'
3 RHAMNOSYLTRANSFERASE#
63 RHAMNOSYL
5768 TRANSFERASE#
1 RHAMNOSYL TRANSFERASE#
(RHAMNOSYL(W)TRANSFERASE#)
L56 4 RHAMNOSYLTRANSFERASE# OR RHAMNOSYL TRANSFERASE#

FILE 'FSTA'
4 RHAMNOSYLTRANSFERASE#
47 RHAMNOSYL
2424 TRANSFERASE#
0 RHAMNOSYL TRANSFERASE#
(RHAMNOSYL(W)TRANSFERASE#)
L57 4 RHAMNOSYLTRANSFERASE# OR RHAMNOSYL TRANSFERASE#

FILE 'CABA'
15 RHAMNOSYLTRANSFERASE#
153 RHAMNOSYL
11181 TRANSFERASE#
3 RHAMNOSYL TRANSFERASE#
(RHAMNOSYL(W)TRANSFERASE#)
L58 17 RHAMNOSYLTRANSFERASE# OR RHAMNOSYL TRANSFERASE#

FILE 'AGRICOLA'
10 RHAMNOSYLTRANSFERASE#
96 RHAMNOSYL
5003 TRANSFERASE#
3 RHAMNOSYL TRANSFERASE#
(RHAMNOSYL(W)TRANSFERASE#)
L59 13 RHAMNOSYLTRANSFERASE# OR RHAMNOSYL TRANSFERASE#

TOTAL FOR ALL FILES
L60 497 RHAMNOSYLTRANSFERASE# OR RHAMNOSYL TRANSFERASE#

=> s (l30 or l45 or l60) not 2001-2006/py
FILE 'MEDLINE'
3034167 2001-2006/PY
(20010000-20069999/PY)
L61 38 (L16 OR L31 OR L46) NOT 2001-2006/PY

FILE 'SCISEARCH'
5664253 2001-2006/PY
(20010000-20069999/PY)
L62 42 (L17 OR L32 OR L47) NOT 2001-2006/PY

FILE 'LIFESCI'
557523 2001-2006/PY
L63 31 (L18 OR L33 OR L48) NOT 2001-2006/PY

FILE 'BIOTECHDS'
128492 2001-2006/PY
L64 20 (L19 OR L34 OR L49) NOT 2001-2006/PY

FILE 'BIOSIS'
2791412 2001-2006/PY
L65 71 (L20 OR L35 OR L50) NOT 2001-2006/PY

FILE 'EMBASE'

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2628511 2001-2006/PY
L66      32 (L21 OR L36 OR L51) NOT 2001-2006/PY

FILE 'HCAPLUS'
5686079 2001-2006/PY
L67      137 (L22 OR L37 OR L52) NOT 2001-2006/PY

FILE 'NTIS'
84966 2001-2006/PY
L68      1 (L23 OR L38 OR L53) NOT 2001-2006/PY

FILE 'ESBIOBASE'
1589871 2001-2006/PY
L69      21 (L24 OR L39 OR L54) NOT 2001-2006/PY

FILE 'BIOTECHNO'
368875 2001-2006/PY
L70      27 (L25 OR L40 OR L55) NOT 2001-2006/PY

FILE 'WPIDS'
4929080 2001-2006/PY
L71      16 (L26 OR L41 OR L56) NOT 2001-2006/PY

FILE 'FSTA'
127664 2001-2006/PY
L72      31 (L27 OR L42 OR L57) NOT 2001-2006/PY

FILE 'CABA'
900679 2001-2006/PY
L73      20 (L28 OR L43 OR L58) NOT 2001-2006/PY

FILE 'AGRICOLA'
294942 2001-2006/PY
L74      16 (L29 OR L44 OR L59) NOT 2001-2006/PY

TOTAL FOR ALL FILES
L75      503 (L30 OR L45 OR L60) NOT 2001-2006/PY

=> dup rem l75
PROCESSING COMPLETED FOR L75
L76      199 DUP REM L75 (304 DUPLICATES REMOVED)

=> d tot

L76  ANSWER 1 OF 199  BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI   Polynucleotide encoding a flavone-7-O-glucosidase-2 -O-rhamnosyl
      -transferase, useful for converting hesperidin from orange
      peels to the sweetener neohesperidin dihydrochalcone (NHDC);
      vector-mediated sense or antisense gene transfer and expression in
      Lactobacillus sp., Saccharomyces sp., Citrus sp., Nicotiana sp., Vitis
      sp. and Daucus sp.
AU   Gressel J; Eyal Y; Fluhr R
AN   2000-12881  BIOTECHDS
PI   WO 2000043490 27 Jul 2000

L76  ANSWER 2 OF 199  BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI   Enzymatic cleavage of rutinocide to rhamnose and/or glucopyranosides, for
      use e.g. in foodstuffs or cosmetics, effected in mixture of water and
      organic solvent(s) for increased selectivity;
      isoquercetin and quercetin production using hesperidinase
      and naringinase
AU   Buchholz H; Koppe T; Schleeahn M
AN   2000-09566  BIOTECHDS
PI   DE 19850029 4 May 2000

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L76 ANSWER 3 OF 199 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
 TI Inhibitor for flavor deterioration in food **products** contains
 flavonols and **neohesperidin** dihydro chalcone as active
 ingredients.
 PI JP 2000236860 A 20000905 (200062)* 7 A23L003-3544

L76 ANSWER 4 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI The complete cps gene cluster from Streptococcus thermophilus NCFB 2393
 involved in the biosynthesis of a new exopolysaccharide
 SO Microbiology (Reading, United Kingdom) (2000), 146(11), 2793-2802
 CODEN: MROBEO; ISSN: 1350-0872
 AU Almiron-Roig, Eva; Mulholland, Francis; Gasson, Michael J.; Griffin,
 Annette M.
 AN 2000:831676 HCAPLUS
 DN 135:29698

L76 ANSWER 5 OF 199 MEDLINE on STN DUPLICATE 1
 TI Structural characterization of the outer core and the O-chain linkage
 region of lipopolysaccharide from Pseudomonas aeruginosa serotype O5.
 SO European journal of biochemistry / FEBS, (2000 Mar) Vol. 267, No. 6, pp.
 1640-50.
 Journal code: 0107600. ISSN: 0014-2956.
 AU Sadovskaya I; Brisson J R; Thibault P; Richards J C; Lam J S; Altman E
 AN 2000177688 MEDLINE

L76 ANSWER 6 OF 199 MEDLINE on STN DUPLICATE 2
 TI New 1-O-acyl alpha-L-rhamnopyranosides and rhamnosylated lactones from
 Streptomyces sp., inhibitors of 3 alpha-hydroxysteroid-dehydrogenase
 (3alpha-HSD).
 SO The Journal of antibiotics, (2000 Sep) Vol. 53, No. 9, pp. 944-53.
 Journal code: 0151115. ISSN: 0021-8820.
 AU Hu J F; Wunderlich D; Sattler I; Hartl A; Papastavrou I; Grond S; Grabley
 S; Feng X Z; Thiericke R
 AN 2001060792 MEDLINE

L76 ANSWER 7 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI A gene cluster for the synthesis of serotype d-specific polysaccharide
 antigen in Actinobacillus actinomycetemcomitans
 SO Biochimica et Biophysica Acta, Gene Structure and Expression (2000),
 1493(1-2), 259-263
 CODEN: BBGSD5; ISSN: 0167-4781
 AU Nakano, Y.; Yoshida, Y.; Suzuki, N.; Yamashita, Y.; Koga, T.
 AN 2000:620440 HCAPLUS
 DN 134:158285

L76 ANSWER 8 OF 199 MEDLINE on STN DUPLICATE 3
 TI Transglycosylation of neohesperidin dihydrochalcone by Bacillus
 stearothermophilus maltogenic amylase.
 SO Journal of agricultural and food chemistry, (2000 Feb) Vol. 48, No. 2, pp.
 152-4.
 Journal code: 0374755. ISSN: 0021-8561.
 AU Cho J S; Yoo S S; Cheong T K; Kim M J; Kim Y; Park K H
 AN 2000156481 MEDLINE

L76 ANSWER 9 OF 199 MEDLINE on STN DUPLICATE 4
 TI The cps locus of Streptococcus suis serotype 2: genetic determinant for
 the synthesis of sialic acid.
 SO Microbial pathogenesis, (2000 Aug) Vol. 29, No. 2, pp. 127-34.
 Journal code: 8606191. ISSN: 0882-4010.
 AU Smith H E; de Vries R; van't Slot R; Smits M A
 AN 2000497150 MEDLINE

L76 ANSWER 10 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Production of native and modified sophorose lipids
 SO Chimica Oggi (2000), 18(10), 76-79

CODEN: CHOGDS; ISSN: 0392-839X

AU Lang, Siegmund; Brakemeier, Andreas; Heckmann, Rolf; Spockner, Stefanie;
Rau, Udo
AN 2000:885905 HCAPLUS
DN 134:206638

L76 ANSWER 11 OF 199 MEDLINE on STN DUPLICATE 5
TI Cloning and functional characterization of a 30 kb gene locus required for
lipopolysaccharide biosynthesis in *Legionella pneumophila*.
SO International journal of medical microbiology : IJMM, (2000 Mar) Vol. 290,
No. 1, pp. 37-49.
Journal code: 100898849. ISSN: 1438-4221.
AU Luneberg E; Zetzmann N; Alber D; Knirel Y A; Kooistra O; Zahringer U;
Frosch M
AN 2001321183 MEDLINE

L76 ANSWER 12 OF 199 FSTA COPYRIGHT 2006 IFIS on STN
TI [Analysis of foods. Determination of **neohesperidin**
dihydrochalcone in yoghurt **products**]
SO Amtliche Sammlung von Untersuchungsverfahren nach Paragraph 35 LMBG,
(1999), L 02.02-5, 1p.
AN 2000(04):P0646 FSTA

L76 ANSWER 13 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Analysis of the 5' portion of the type 19A capsule locus identifies two
classes of cpsC, cpsD, and cpsE genes in *Streptococcus pneumoniae*
SO Journal of Bacteriology (1999), 181(11), 3599-3605
CODEN: JOBAA; ISSN: 0021-9193
AU Morona, Judy K.; Morona, Renato; Paton, James C.
AN 1999:368909 HCAPLUS
DN 131:166048

L76 ANSWER 14 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Genetic organization of the O7-specific lipopolysaccharide biosynthesis
cluster of *Escherichia coli* VW187 (O7:K1)
SO Microbiology (Reading, United Kingdom) (1999), 145(9), 2485-2495
CODEN: MROBEO; ISSN: 1350-0872
AU Marolda, Cristina L.; Feldman, Mario F.; Valvano, Miguel A.
AN 1999:648266 HCAPLUS
DN 132:31493

L76 ANSWER 15 OF 199 MEDLINE on STN DUPLICATE 6
TI Genetic analysis of the *Serratia marcescens* N28b O4 antigen gene cluster.
SO Journal of bacteriology, (1999 Mar) Vol. 181, No. 6, pp. 1883-91.
Journal code: 2985120R. ISSN: 0021-9193.
AU Saigi F; Climent N; Pique N; Sanchez C; Merino S; Rubires X; Aguilar A;
Tomas J M; Regue M
AN 1999173913 MEDLINE

L76 ANSWER 16 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Pyridoxine as a substrate for screening synthetic potential of
glycosidases
SO Collection of Czechoslovak Chemical Communications (1999), 64(8),
1325-1334
CODEN: CCCCAK; ISSN: 0010-0765
AU Weignerova, Lenka; Suzuki, Yukio; Hunkova, Zdenka; Sedmera, Petr;
Havlicek, Vladimir; Marek, Radek; Kren, Vladimir
AN 1999:661456 HCAPLUS
DN 132:10235

L76 ANSWER 17 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
on STN DUPLICATE 7
TI Enzymatic conversion of a sophorolipid into a glucose lipid
SO BIOTECHNOLOGY LETTERS, (NOV 1999) Vol. 21, No. 11, pp. 973-977.
ISSN: 0141-5492.

AU Rau U (Reprint); Heckmann R; Wray V; Lang S
AN 1999:903126 SCISEARCH

L76 ANSWER 18 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Molecular and genetic characterization of the capsule biosynthesis locus
of Streptococcus pneumoniae type 23F
SO Microbiology (Reading, United Kingdom) (1999), 145(4), 781-789
CODEN: MROBEO; ISSN: 1350-0872
AU Morona, Judy K.; Miller, David C.; Coffey, Tracey J.; Vindurampulle,
Christofer J.; Spratt, Brian G.; Morona, Renato; Paton, James C.
AN 1999:251831 HCAPLUS
DN 131:83817

L76 ANSWER 19 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Newer application of carbohydrases in food processing industry
SO Trends in Carbohydrate Chemistry (1999), 5, 123-128
CODEN: TCHCFX
AU Kulkarni, Pushpa R.
AN 2000:288177 HCAPLUS
DN 133:119065

L76 ANSWER 20 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Variation in the ability of the maize Lc regulatory gene to upregulate
flavonoid biosynthesis in heterologous systems
SO Plant Science (Shannon, Ireland) (1999), 140(1), 31-39
CODEN: PLSCE4; ISSN: 0168-9452
AU Bradley, J. Marie; Deroles, Simon C.; Boase, Murray R.; Bloor, Stephen;
Swinny, Ewald; Davies, Kevin M.
AN 1999:127613 HCAPLUS
DN 130:294033

L76 ANSWER 21 OF 199 MEDLINE on STN DUPLICATE 8
TI Rhamnose lipids--biosynthesis, microbial production and application
potential.
SO Applied microbiology and biotechnology, (1999 Jan) Vol. 51, No. 1, pp.
22-32. Ref: 116
Journal code: 8406612. ISSN: 0175-7598.
AU Lang S; Wullbrandt D
AN 1999177545 MEDLINE

L76 ANSWER 22 OF 199 LIFESCI COPYRIGHT 2006 CSA on STN
TI Genetic sequences encoding glycosyltransferase enzymes and uses therefor
SO (19990112) . US Patent: 5859334; US CLASS: 800/205; 800/DIG.67; 536/23.2;
536/24.3; 435/320.1; 435/172.3..
AU Brugliera, F.; Holton, T.L.
AN 2000:49551 LIFESCI

L76 ANSWER 23 OF 199 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Preparation of alpha-monoglucosyl-hesperidin-rich substance;
by adding glucoamylase and alpha-L-rhamnosidase to
alpha-glucosyl-hesperidin and hesperidin, gives bioflavonoid complex
component, used as capillary protectant
AU Miyake T; Yumoto T
AN 1999-01007 BIOTECHDS
PI WO 9842859 1 Oct 1998

L76 ANSWER 24 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Enzymic diglucosylation of monoterpenes
SO Repub. Korea, No pp. given
CODEN: KRXXFC
IN Kim, Young Hoe; Kim, Keun Soo; Lee, Jung Ill; Park, Joon Young
AN 2004:843360 HCAPLUS
DN 142:36994

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI KR 148716 B1 19980801 KR 1995-4796 19950309

L76 ANSWER 25 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Improvement of stevioside sweeteners with dihydrocalcone
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF

IN Nishioka, Hitomi; Kono, Hiroyuki; Urachi, Tatsuya
 AN 1998:674599 HCAPLUS
 DN 129:329988

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 10276712	A2	19981020	JP 1997-103961	19970408

L76 ANSWER 26 OF 199 MEDLINE on STN DUPLICATE 9
 TI Identification and recombinant expression of a Mycobacterium avium
rhamnosyltransferase gene (rtfA) involved in glycopeptidolipid
 biosynthesis.
 SO Journal of bacteriology, (1998 Nov) Vol. 180, No. 21, pp. 5567-73.
 Journal code: 2985120R. ISSN: 0021-9193.
 AU Eckstein T M; Silbaq F S; Chatterjee D; Kelly N J; Brennan P J; Belisle J
 T
 AN 1999008988 MEDLINE

L76 ANSWER 27 OF 199 MEDLINE on STN
 TI Starvation selection restores elastase and rhamnolipid production in a
 Pseudomonas aeruginosa quorum-sensing mutant.
 SO Infection and immunity, (1998 Sep) Vol. 66, No. 9, pp. 4499-502.
 Journal code: 0246127. ISSN: 0019-9567.
 AU Van Delden C; Pesci E C; Pearson J P; Iglewski B H
 AN 1998380404 MEDLINE

L76 ANSWER 28 OF 199 MEDLINE on STN DUPLICATE 10
 TI Synthesis of the A-band polysaccharide sugar D-rhamnose requires Rmd and
 WbpW: identification of multiple AlgA homologues, WbpW and ORF488, in
 Pseudomonas aeruginosa.
 SO Molecular microbiology, (1998 Sep) Vol. 29, No. 6, pp. 1419-34.
 Journal code: 8712028. ISSN: 0950-382X.
 AU Rocchetta H L; Pacan J C; Lam J S
 AN 1998453140 MEDLINE

L76 ANSWER 29 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Coumarin glycosides of Glehnia littoralis root and rhizoma
 SO Chemical & Pharmaceutical Bulletin (1998), 46(9), 1404-1407
 CODEN: CPBTAL; ISSN: 0009-2363
 AU Kitajima, Junichi; Okamura, Chieko; Ishikawa, Toru; Tanaka, Yasuko
 AN 1998:634896 HCAPLUS
 DN 129:316449

L76 ANSWER 30 OF 199 MEDLINE on STN DUPLICATE 11
 TI Isolation and characterization of a cDNA clone of UDP-galactose: flavonoid
 3-O-galactosyltransferase (UF3GaT) expressed in Vigna mungo seedlings.
 SO Plant & cell physiology, (1998 Nov) Vol. 39, No. 11, pp. 1145-55.
 Journal code: 9430925. ISSN: 0032-0781.
 AU Mato M; Ozeki Y; Itoh Y; Higeta D; Yoshitama K; Teramoto S; Aida R;
 Ishikura N; Shibata M
 AN 1999108563 MEDLINE

L76 ANSWER 31 OF 199 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights
 reserved on STN DUPLICATE 12
 TI Erratum: Three **rhamnosyltransferases** responsible for assembly of
 the A-band D-rhamnan polysaccharide in Pseudomonas aeruginosa: A fourth
 transferase, WbpL, is required for the initiation of both A-band and
 B-band lipopolysaccharide synthesis (Molecular Microbiology (1998) (28, 6
 (1103-1119)).
 SO Molecular Microbiology, (1998) Vol. 30, No. 5, pp. 1131. .

Refs: 0

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L76 ANSWER 32 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
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transferase, WbpL, is required for the initiation of both A-band and
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L76 ANSWER 38 OF 199 MEDLINE on STN

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CODEN: JAINEE; ISSN: 1060-3271
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aroma
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products
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CODEN: JKXXAF
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Nishama, Hirokazu
AN 1995:634749 HCAPLUS
DN 123:17530

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 07102289	A2	19950418	JP 1993-275037	19931005

L76 ANSWER 58 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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L76 ANSWER 59 OF 199 MEDLINE on STN DUPLICATE 20

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L76 ANSWER 63 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 22

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ISSN: 0951-418X.

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CODEN: 61XGAC

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L76 ANSWER 67 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
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Molecular Approaches), 19-22
CODEN: AHORA2; ISSN: 0567-7572
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AN 1997:198907 HCAPLUS
DN 126:209612

L76 ANSWER 68 OF 199 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
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flavonoid-5-glucosyltransferase and anthocyanidin-3-glucoside-
rhamnosyltransferase gene expression in transgenic plant with
modified flower color; DNA probe
AN 1994-04557 BIOTECHDS
PI WO 9403591 17 Feb 1994

L76 ANSWER 69 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
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SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
IN Kosuge, Takuo; Ishida, Kinji; Nagasawa, Michio
AN 1994:517686 HCAPLUS
DN 121:117686

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 06048946	A2	19940222	JP 1991-150693	19910621
	JP 07033335	B4	19950412		

L76 ANSWER 70 OF 199 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
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PI JP 06279211 A 19941004 (199444)* 6 A01N043-16

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L76 ANSWER 73 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
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CODEN: JOBAAY; ISSN: 0021-9193

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H.; Batley, Michael; Redmond, John W.; Lindquist, Lennart; Reeves, Peter
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L76 ANSWER 74 OF 199 MEDLINE on STN DUPLICATE 26
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L76 ANSWER 75 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
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CODEN: CPBTAL; ISSN: 0009-2363

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Kazuyoshi; Tatara, Naomi; Minato, Masakazu; Shibuya, Hirotaka; Kitagawa,
Isao
AN 1995:437285 HCAPLUS
DN 123:56409

L76 ANSWER 76 OF 199 MEDLINE on STN DUPLICATE 27
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locus of Petunia hybrida.
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Journal code: 9207397. ISSN: 0960-7412.

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AN 94177178 MEDLINE

L76 ANSWER 77 OF 199 MEDLINE on STN DUPLICATE 28
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of Petunia hybrida: characterization of insertion sequences in two mutant
alleles.
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ISSN: 0960-7412.

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AN 94:35157 LIFESCI

L76 ANSWER 79 OF 199 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
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by reaction of rutin mixture with alpha-L-rhamnosidase and/or
glucoamylase

AN 1993-13526 BIOTECHDS
PI JP 05199891 10 Aug 1993

L76 ANSWER 80 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Novel flavonoids as plant growth accelerators
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF

IN Komai, Koichiro

AN 1994:403297 HCAPLUS

DN 121:3297

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 05310776	A2	19931122	JP 1991-201945	19910812
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L76 ANSWER 81 OF 199 MEDLINE on STN DUPLICATE 30

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L76 ANSWER 82 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
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frameshift mutation that leads to pyrimidine starvation due to low pyrE
expression levels.

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CODEN: JOBAAAY. ISSN: 0021-9193.

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AN 1993:342545 BIOSIS

L76 ANSWER 83 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
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TI JUVENILE-SPECIFIC LOCALIZATION AND ACCUMULATION OF A
RHAMNOSYLTRANSFERASE AND ITS BITTER FLAVONOID IN FOLIAGE, FLOWERS,
AND YOUNG CITRUS-FRUIT

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ISSN: 0032-0889.

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AN 1993:743245 SCISEARCH

L76 ANSWER 84 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
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TI FLAVOR MODIFYING CHARACTERISTICS OF THE INTENSE SWEETENER NEOHESPERIDIN
DIHYDROCHALCONE

SO JOURNAL OF FOOD SCIENCE, (MAY-JUN 1993) Vol. 58, No. 3, pp. 592-&.
ISSN: 0022-1147.

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L76 ANSWER 85 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
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CITRUS SPP

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ISSN: 0032-0889.

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L76 ANSWER 86 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN

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(strain M67): the genetic basis of the polymorphism between groups C2 and B

SO Molecular Microbiology (1992), 6(10), 1385-94
CODEN: MOMIEE; ISSN: 0950-382X

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AN 1993:248724 HCAPLUS
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L76 ANSWER 87 OF 199 MEDLINE on STN

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Journal code: 0066751. ISSN: 0032-0943.

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L76 ANSWER 88 OF 199 MEDLINE on STN DUPLICATE 34

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Journal code: 8702180. ISSN: 0901-9928.

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L76 ANSWER 89 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN

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CODEN: DFSCDX; ISSN: 0167-4501

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AN 1992:632410 HCAPLUS
DN 117:232410

L76 ANSWER 90 OF 199 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 35

TI Bound vanillin in maple sap.

SO *FLAVOUR FRAGRANCE J.*, (1992) vol. 7, no. 1, pp. 9-13.

AU Belford, A.L.; Lindsay, R.C.; Ridley, S.C.
AN 92:3859 LIFESCI

L76 ANSWER 91 OF 199 MEDLINE on STN DUPLICATE 36

TI UDP-rhamnose:flavanone-7-O-glucoside-2''-O-rhamnosyltransferase.
Purification and characterization of an enzyme catalyzing the production of bitter compounds in citrus.

SO *The Journal of biological chemistry*, (1991 Nov 5) Vol. 266, No. 31, pp. 20953-9.
Journal code: 2985121R. ISSN: 0021-9258.

AU Bar-Peled M; Lewinsohn E; Fluhr R; Gressel J
AN 92041960 MEDLINE

L76 ANSWER 92 OF 199 LIFESCI COPYRIGHT 2006 CSA on STN

TI UDP-rhamnose:flavanone-7-O-glucoside-2''-O-rhamnosyltransferase:
Purification and characterization of an enzyme catalyzing the production of bitter compounds in citrus.

SO *J. BIOL. CHEM.*, (1991) vol. 166, no. 31, pp. 20953-959.

AU Bar-Peled, M.; Lewinsohn, E.; Fluhr, R.; Gressel, J.
AN 91:45609 LIFESCI

L76 ANSWER 93 OF 199 MEDLINE on STN DUPLICATE 37

TI Studies on absorption, distribution, excretion and metabolism of ginseng saponins. VII. Comparison of the decomposition modes of ginsenoside-Rb1 and -Rb2 in the digestive tract of rats.

SO *Chemical & pharmaceutical bulletin*, (1991 Sep) Vol. 39, No. 9, pp. 2357-61.
Journal code: 0377775. ISSN: 0009-2363.

AU Karikura M; Miyase T; Tanizawa H; Taniyama T; Takino Y
AN 92208994 MEDLINE

L76 ANSWER 94 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 38
TI Preparation of naringin dihydrochalcone and neohesperidin dihydrochalcone
in a pilot plant
SO Essenze, Derivati Agrumari (1991), 61(1), 56-60
CODEN: EDAGAH; ISSN: 0014-0902
AU Wu, Houjiu; Calvarano, Maria; Di Giacomo, Angelo
AN 1993:541560 HCAPLUS
DN 119:141560

L76 ANSWER 95 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 39
TI Limonoid glucosides in orange juices by HPLC
SO Journal of Agricultural and Food Chemistry (1990), 38(9), 1860-1
CODEN: JAFCAU; ISSN: 0021-8561
AU Herman, Zareb; Fong, Chi H.; Ou, Peter; Hasegawa, Shin
AN 1990:530805 HCAPLUS
DN 113:130805

L76 ANSWER 96 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Partial purification of glycosyl transferases catalyzing the Salmonella
anatum and S. kentucky O-antigens biosynthesis by gel permeation HPLC
SO Bioorganicheskaya Khimiya (1990), 16(10), 1325-31
CODEN: BIKHD7; ISSN: 0132-3423
AU Druzhinina, T. N.; Sizova, O. V.; Torgov, V. I.; Shibaev, V. N.
AN 1991:243216 HCAPLUS
DN 114:243216

L76 ANSWER 97 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 40
TI Neohesperidin dihydrochalcone: properties and applications
SO Lebensmittel-Wissenschaft und -Technologie (1990), 23(5), 371-6
CODEN: LBWTAP; ISSN: 0023-6438
AU Baer, A.; Borrego, F.; Benavente, O.; Castillo, J.; Del Rio, J. A.
AN 1991:534248 HCAPLUS
DN 115:134248

L76 ANSWER 98 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI STUDY OF FLAVONOID IN CITRUS 2. CHANGES IN CONTENT OF FLAVANONE GLYCOSIDES
IN THE PEEL OF CITRUS.
SO Shoyakugaku Zasshi, (1990) Vol. 44, No. 2, pp. 127-130.
CODEN: SHZAAZ. ISSN: 0037-4377.
AU ISHIHARA S [Reprint author]; YOSHIDA S; TOSA S; NAKAZAWA H; TOMIMATSU T
AN 1990:452544 BIOSIS

L76 ANSWER 99 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Studies on prevention of cloudiness by **hesperidinase** in canned
mandarin orange in syrup. III. Influence of residual chlorine content on
hesperidinase activity for prevention of cloudiness in canned
mandarin orange in syrup
SO Kenkyu Hokokusho - Toyo Shokuhin Kogyo Tanki Daigaku, Toyo Shokuhin
Kenkyusho (1990), Volume Date 1988-1989, (18), 49-55
CODEN: TSKTA2; ISSN: 0564-0296
AU Asaka, Masashi; Mouri, Takenori
AN 1991:490901 HCAPLUS
DN 115:90901

L76 ANSWER 100 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Preparation of L-rhamnose from glycosides by enzymic hydrolysis
SO Eur. Pat. Appl., 8 pp.
CODEN: EPXXDW
IN Cheetham, Peter Samuel James; Quail, Michael Andrew
AN 1990:530715 HCAPLUS
DN 113:130715

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 317033	A1	19890524	EP 1988-202595	19881118

EP 317033	B1	19930728		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE				
WO 8904870	A1	19890601	WO 1988-EP1056	19881118
W: BR, JP				
JP 02502248	T2	19900726	JP 1988-509438	19881118
AT 92109	E	19930815	AT 1988-202595	19881118
ES 2058241	T3	19941101	ES 1988-202595	19881118
US 5077206	A	19911231	US 1988-273782	19881121
CA 1333780	A1	19950103	CA 1988-583646	19881121

L76 ANSWER 101 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN
 DUPLICATE 41
 TI FLAVANONE GLYCOSIDE BIOSYNTHESIS IN CITRUS - CHALCONE SYNTHASE,
 UDP-GLUCOSE FLAVANONE-7-ORTHO-GLUCOSYL-TRANSFERASE AND FLAVENONE-7-ORTHO-
RHAMNOSYL-TRANSFERASE ACTIVITIES IN CELL-FREE-EXTRACTS
 SO PLANT PHYSIOLOGY, (DEC 1989) Vol. 91, No. 4, pp. 1323-1328.
 ISSN: 0032-0889.
 AU LEWINSOHN E (Reprint); BRITSCH L; MAZUR Y; GRESSEL J
 AN 1990:18888 SCISEARCH

L76 ANSWER 102 OF 199 MEDLINE on STN DUPLICATE 42
 TI Mutagenicity of rutin and the glycosidic activity of cultured cell-free
 microbial preparations of human faeces and saliva.
 SO Food and chemical toxicology : an international journal published for the
 British Industrial Biological Research Association, (1989 Jul) Vol. 27,
 No. 7, pp. 437-43.
 Journal code: 8207483. ISSN: 0278-6915.
 AU Laires A; Pacheco P; Rueff J
 AN 89378916 MEDLINE

L76 ANSWER 103 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
 STN DUPLICATE 43
 TI PRODUCTION OF FLAVANONE NEOHESPERIDOSIDES IN CITRUS EMBRYOS.
 SO Plant Cell Reports, (1989) Vol. 8, No. 7, pp. 391-394.
 CODEN: PCRPD8. ISSN: 0721-7714.
 AU GAVISH H [Reprint author]; LEWINSOHN E; VARDI A; FLUHR R
 AN 1990:48336 BIOSIS

L76 ANSWER 104 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 44
 TI Preparation of sustained-release preparation containing active hydroxyl or
 amino group-containing compounds condensed with maleic
 anhydride-polyalkylene glycol ether copolymers
 SO Eur. Pat. Appl., 10 pp.
 CODEN: EPXXDW
 IN Akimoto, Shinichi; Honda, Susumu; Yasukohchi, Tohru
 AN 1989:428539 HCAPLUS
 DN 111:28539

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	EP 282951	A2	19880921	EP 1988-104022	19880314
	EP 282951	A3	19900725		
	EP 282951	B1	19940112		
	R: CH, DE, FR, GB, IT, LI, NL				
	JP 63226358	A2	19880921	JP 1987-57926	19870314
	JP 06044927	B4	19940615		
	DK 8801374	A	19880915	DK 1988-1374	19880314
	DK 170631	B1	19951120		
	US 5081111	A	19920114	US 1988-168040	19880314
	US 5320837	A	19940614	US 1991-763831	19910923

L76 ANSWER 105 OF 199 MEDLINE on STN DUPLICATE 45
 TI [Introduction of modified hexose residues into O-specific polysaccharides
 of Salmonella of serotype E, B, C2 and C3 using synthetic nucleotide
 sugars].
 Vvedenie modifitsirovannykh ostatkov geksoz v O-spetsificheskie

polisakharidy salmonell serogrupp E, B, C2 i C3 s pomoshch'iu
sinteticheskikh nukleotidsakharov.

SO Bioorganicheskaya khimiya, (1988 Sep) Vol. 14, No. 9, pp. 1242-9.
Journal code: 7804941. ISSN: 0132-3423.

AU Druzhinina T N; Gogilashvili L M; Shibaev V N
AN 89117621 MEDLINE

L76 ANSWER 106 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Simultaneous enzyme catalysis extraction: a versatile technique for the
study of flavor precursors
SO Journal of Agricultural and Food Chemistry (1988), 36(6), 1238-42
CODEN: JAFCAU; ISSN: 0021-8561
AU Schwab, Wilfried; Schreier, Peter
AN 1988:588897 HCAPLUS
DN 109:188897

L76 ANSWER 107 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Chemical studies on the constituents of edible plants. VI. Cyanogenesis
and practical use of Perilla frutescens var. acuta as a food colorant
SO Nippon Kasei Gakkaishi (1988), 39(8), 817-22
CODEN: NKGAE; ISSN: 0913-5227
AU Aritomi, Masakazu
AN 1988:629016 HCAPLUS
DN 109:229016

L76 ANSWER 108 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 46
TI Kinetic-fluorometric determination of flavonoids at the nanomole level
SO Analyst (Cambridge, United Kingdom) (1988), 113(4), 555-8
CODEN: ANALAO; ISSN: 0003-2654
AU Peinado, Jose; Florindo, Javier
AN 1988:453274 HCAPLUS
DN 109:53274

L76 ANSWER 109 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Enzymic production of L-rhamnose
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
IN Sakai, Takuo
AN 1987:212578 HCAPLUS
DN 106:212578

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62000293	A2	19870106	JP 1985-139694	19850626
	JP 05003280	B4	19930114		

L76 ANSWER 110 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
on STN DUPLICATE 47
TI ACTIVITY OF SOLUBLE AND IMMOBILIZED HESPERIDINASE ON INSOLUBLE
HESPERIDIN
SO BIOTECHNOLOGY LETTERS, (DEC 1987) Vol. 9, No. 12, pp. 871-874.
ISSN: 0141-5492.
AU SANCHEZ M A (Reprint); ROMERO C; MANJON A; IBORRA J L
AN 1987:708532 SCISEARCH

L76 ANSWER 111 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 48
TI MUTAGENICITY OF MARKET BASKET SAMPLES FOR A TOTAL DIET STUDY.
SO Journal of the Food Hygienic Society of Japan, (1987) Vol. 28, No. 5, pp.
336-347.
CODEN: SKEZAP. ISSN: 0015-6426.
AU MAZAKI M [Reprint author]; TAKUMA N; TAKEBAYASHI I; UYETA M; OHNISHI Y
AN 1988:139643 BIOSIS

L76 ANSWER 112 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Serological and genetical studies on the evolution of substrate

specificity of flavone glycosyltransferase genes in *Silene*
 SO Experientia (1987), 43(2), 202-5
 CODEN: EXPEAM; ISSN: 0014-4754
 AU Van Brederode, J.; Kamps-Heinsbroek, R.; Steyns, J.
 AN 1987:404408 HCAPLUS
 DN 107:4408

L76 ANSWER 113 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Procedure for the **synthesis** of **neohesperidin**
 dihydrochalcone from naringin

SO Span., 8 pp.
 CODEN: SPXXAD

IN Lopez Sanchez, Miguel
 AN 1987:67621 HCAPLUS
 DN 106:67621

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	ES 545276	A1	19860116	ES 1985-545276	19850716

L76 ANSWER 114 OF 199 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 49

TI The water-sweet aftertaste of neohesperidin dihydrochalcone and thaumatin
 as a method for determining their sweet persistence.

SO CHEM. SENSES., (1986) vol. 11, no. 3, pp. 361-370.

AU Naim, M.; Dukan, E.; Zehavi, U.; Yaron, L.
 AN 86:52544 LIFESCI

L76 ANSWER 115 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Structures and reactions of renyol and the related natural products

SO Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1985), 27th, 656-63
 CODEN: TYKYDS

AU Endo, Katsuya; Seya, Kazuhiko; Hikino, Hiroshi; Akiyama, Masashi;
 Ogasawara, Kunio; Takano, Seiichi
 AN 1986:164877 HCAPLUS
 DN 104:164877

L76 ANSWER 116 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
 STN DUPLICATE 50

TI HYDROLYSIS OF STEVIA-REBAUDIANA GLYCOSIDES WITH THE GASTRIC JUICE OF
 MEGALOBULIMUS-PARANAGUENSIS.

SO Arquivos de Biologia e Tecnologia (Curitiba), (1985) Vol. 28, No. 3, pp.
 399-412.

CODEN: ABTTAP. ISSN: 0365-0979.
 AU FERRARESI M D L [Reprint author]; BRACHT A M K; BRACHT A
 AN 1986:116912 BIOSIS

L76 ANSWER 117 OF 199 LIFESCI COPYRIGHT 2006 CSA on STN DUPLICATE 51

TI Evidence for taste persistence of sweeteners in baboon monkeys: A proposed
 experimental model.

SO CHEM. SENSES., (1985) vol. 10, no. 3, pp. 269-277.

AU Rogatka, H.; Naim, M.; Zehavi, U.
 AN 85:90977 LIFESCI

L76 ANSWER 118 OF 199 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

TI *Madhuca indica* leaf saponin and its biological activity;
 spasmolytic isolation

SO Fitoterapia; (1985) 56, 3, 186-88
 CODEN: FTRPAE

AU Banerji R; Misra G; Nigam S K
 AN 1986-11931 BIOTECHDS

L76 ANSWER 119 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
 STN DUPLICATE 52

TI QUANTITATIVE DETERMINATION OF THE COMPOUNDS NARINGIN NEOHESPERIDIN
 PAEONIFLORIN OF IMMATURE ORANGE AND PEONY ROOT PRESCRIBED IN HAINO-SAN.

SO Shoyakugaku Zasshi, (1985) Vol. 39, No. 2, pp. 126-130.

CODEN: SHZAAAY. ISSN: 0037-4377.

AU SAITO K-I [Reprint author]; KONOSHIMA M; KANO Y
AN 1986:116116 BIOSIS

L76 ANSWER 120 OF 199 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI New saponin derivative prepared from chikusetsu-saponin III;
by action of **hesperidinase**; oxygen-carrying blood substitute
AN 1985-00798 BIOTECHDS
PI JP 59163393 14 Sep 1984

L76 ANSWER 121 OF 199 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Production of thermal resistant **hesperidinase** AH-2 by
cultivation of *Penicillium*;
characterization of the heat and acid resistant enzyme
AN 1983-03701 BIOTECHDS
PI JP 58020189 5 Feb 1983

L76 ANSWER 122 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Antitumor protopanaxadiols and protopanaxatriols
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF

AN 1983:600492 HCAPLUS
DN 99:200492

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 58131999	A2	19830806	JP 1982-13737	19820130

L76 ANSWER 123 OF 199 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
TI Promoting growth of plant e.g. wheat or soy beans - by applying
combination of steviol glycoside and hydrolase for saccharide.
PI JP 58140006 A 19830819 (198339)* 4
JP 59021844 B 19840522 (198424)

L76 ANSWER 124 OF 199 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
TI Triterpenoid sapogenins from leaves of *Pittosporum undulatum*;
a medicinal plant (cheesewood) whose saponin mixture has antibiotic
activity; isolation and structure determination
SO Phytochemistry; (1983) 22, 5, 1235-37
CODEN: PYTCAS
AU Higuchi R; Komori T; Kawasaki T; Lassak E V
AN 1983-06009 BIOTECHDS

L76 ANSWER 125 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Sweeteners
SO Kirk-Othmer Encycl. Chem. Technol., 3rd Ed. (1983), Volume 22, 448-64.
Editor(s): Grayson, Martin; Eckroth, David. Publisher: Wiley, New York, N.
Y.
CODEN: 37ASAA
AU Mazur, R.
AN 1983:196397 HCAPLUS
DN 98:196397

L76 ANSWER 126 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
on STN
TI INHIBITION OF GROWTH AND ACID PRODUCTION OF *STREPTOCOCCUS*-MUTANS
BY **NEOHESPERIDIN** DIHYDROCHALCONE
SO JOURNAL OF DENTAL RESEARCH, (1983) Vol. 62, Sp. iss. SI, pp. 277-277.
ISSN: 0022-0345.
AU BERRY C W (Reprint); HENRY C A
AN 1983:123075 SCISEARCH

L76 ANSWER 127 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI SYNTHESIS AND TASTE OF FLAVANONE AND DI HYDRO CHALCONE GLYCOSIDES
CONTAINING 3-O-ALPHA-L RHAMNOPYRANOSYL-D GLUCO PYRANOSE OR 4-O-ALPHA-L

RHAMNOPYRANOSYL-D GLUCO PYRANOSE IN THE SUGAR MOIETY.

SO Agricultural and Biological Chemistry, (1983) Vol. 47, No. 2, pp. 265-274.
 CODEN: ABCHA6. ISSN: 0002-1369.
 AU KONISHI F [Reprint author]; ESAKI S; KAMIYA S
 AN 1983:283493 BIOSIS

L76 ANSWER 128 OF 199 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI Enzymatic determination of stevioside in Stevia rebaudiana;
 assay of the sweetener by coupling hesperidinase and
 glucose-isomerase and following hydrogen peroxide production by the
 oxidation of 2,2'-azino-di-(3-ethyl-enzothiazoline- 6-sulfonic acid)
 SO Phytochemistry; (1982) 21, 1927-30
 CODEN: PYTCAS
 AU Mizukami H; Shiiba K; Ohashi H
 AN 1982-02805 BIOTECHDS

L76 ANSWER 129 OF 199 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 TI Formation of flavonol 3-O-diglycosides and flavonol 3-O-Triglycosides by
 enzyme extracts from anthers of Tulipa cv. Apeldoorn;
 isolation and characterization of 3 glycosyltransferases from Tulip
 anthers
 SO Z.Naturforsch.C; (1982) 37, 587-99
 CODEN: ZNCBDA
 AU Kleinhollenhorst G; Behrens H; Pegels G; Srunck N; *Wiermann R
 AN 1982-02069 BIOTECHDS

L76 ANSWER 130 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
 STN
 TI FORMATION OF FLAVONOL 3-O DI GLYCOSIDES AND FLAVONOL 3-O TRI GLYCOSIDES BY
 ENZYME EXTRACTS FROM ANTHERS OF TULIPA CULTIVAR APELDOORN.
 SO Zeitschrift fuer Naturforschung Section C Journal of Biosciences, (1982)
 Vol. 37, No. 7-8, pp. 587-599.
 ISSN: 0939-5075.
 AU KLEINEHOLLENHORST G [Reprint author]; BEHRENS H; PEGELS G; SRUNK N;
 WIERMANN R
 AN 1983:248704 BIOSIS

L76 ANSWER 131 OF 199 MEDLINE on STN DUPLICATE 58
 TI Mutagenicity of hydrolysates of citrus fruit juices.
 SO Mutation research, (1982 Jun) Vol. 101, No. 4, pp. 283-91.
 Journal code: 0400763. ISSN: 0027-5107.
 AU Mazaki M; Ishii T; Uyeta M
 AN 82272034 MEDLINE

L76 ANSWER 132 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Neohesperidin dihydrochalcone sweetener composition
 SO U.S., 5 pp. Cont.-in-part of U.S. Ser. No. 969,391.
 CODEN: USXXAM
 IN Dwivedi, Basant K.; Sampathkumar, Prathivadibhayankaram S.
 AN 1981:155263 HCAPLUS
 DN 94:155263

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4254155	A	19810303	US 1979-34565	19790430
	US 4304794	A	19811208	US 1980-164694	19800630

L76 ANSWER 133 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Prevention of turbidity formation in canned Satsuma mandarin
 SO Jpn. Tokkyo Koho, 3 pp.
 CODEN: JAXXAD
 AN 1981:567388 HCAPLUS
 DN 95:167388

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 56029502	B4	19810708	JP 1973-49975	19730504

L76 ANSWER 134 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Agents to increase fruit sugar contents
SO Jpn. Tokkyo Koho, 3 pp.

CODEN: JAXXAD

AN 1982:2161 HCAPLUS

DN 96:2161

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 56037962	B4	19810903	JP 1974-105524	19740914

L76 ANSWER 135 OF 199 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI White turbidity of orange in can prevention - by addition of
hesperidinase and organic acid (J4 25.12.74).

PI JP 56029502 B 19810708 (198131)* 3

JP 49134863 A 19741225 (198131)

L76 ANSWER 136 OF 199 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Cyclodextrin addition to processed citrus fruit - prevents cloudiness caused
by hesperidin and bitterness by naringin, without being inactivated during
processing.

PI JP 56048849 A 19810502 (198125)*

US 4332825 A 19820601 (198224)

JP 63032420 B 19880629 (198829)

L76 ANSWER 137 OF 199 MEDLINE on STN DUPLICATE 59

TI Mutagenicities of 61 flavonoids and 11 related compounds.

SO Environmental mutagenesis, (1981) Vol. 3, No. 4, pp. 401-19.

Journal code: 7909737. ISSN: 0192-2521.

AU Nagao M; Morita N; Yahagi T; Shimizu M; Kuroyanagi M; Fukuoka M; Yoshihira
K; Natori S; Fujino T; Sugimura T

AN 81260719 MEDLINE

L76 ANSWER 138 OF 199 MEDLINE on STN DUPLICATE 60

TI Mutagenicity of hydrolysates of tea infusions.

SO Mutation research, (1981 Mar) Vol. 88, No. 3, pp. 233-40.

Journal code: 0400763. ISSN: 0027-5107.

AU Uyeta M; Taue S; Mazaki M

AN 81244965 MEDLINE

L76 ANSWER 139 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Neohesperidin dihydrochalcone: an updated review on a naturally derived
sweetener and flavor potentiator

SO Perfumer & Flavorist (1981), 5(7), 12-14, 16-18

CODEN: PEFLDI; ISSN: 0361-8587

AU Pratter, Paul J.

AN 1981:82209 HCAPLUS

DN 94:82209

L76 ANSWER 140 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 61

TI Hydrolyzates of holotoxin B

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

IN Kitakawa, Isao

AN 1980:196383 HCAPLUS

DN 92:196383

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 55000337	A2	19800105	JP 1978-73636	19780617
	JP 63000440	B4	19880107		

L76 ANSWER 141 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
on STN DUPLICATE 62

TI IDENTIFICATION, PROPERTIES AND GENETIC-CONTROL OF UDP-L-RHAMNOSE -
ANTHOCYANIDIN 3-O-GLUCOSIDE, 6''-O-RHAMNOSYLTRANSFERASE ISOLATED

FROM PETALS OF THE RED CAMPION (SILENE-DIOICA)
SO ZEITSCHRIFT FUR NATURFORSCHUNG C-A JOURNAL OF BIOSCIENCES, (1980) Vol. 35,
No. 3-4, pp. 249-257.
ISSN: 0939-5075.
AU KAMSTEEG J (Reprint); VANBREDERODE J; VANNIGTEVECHT G
AN 1980:154977 SCISEARCH

L76 ANSWER 142 OF 199 FSTA COPYRIGHT 2006 IFIS on STN DUPLICATE 63
TI [**Neohesperidin** dihydrochalcone (NHDC): purity control in
relation to **production** and GLC determination in soft drinks.]
SO Essenze Derivati Agrumari, (1980), 50 (1) 9-20, 13 ref.
AU Tateo, F.; Cavalli, S.
AN 1981(03):A0109 FSTA

L76 ANSWER 143 OF 199 MEDLINE on STN DUPLICATE 64
TI Biosynthesis of the core part of the lipopolysaccharide of *Pseudomonas*
aeruginosa.
SO Journal of general microbiology, (1980 Mar) Vol. 117, No. 1, pp. 1-7.
Journal code: 0375371. ISSN: 0022-1287.
AU Asonganyi T M; Meadow P M
AN 80229416 MEDLINE

L76 ANSWER 144 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 65
TI SPECIFICITY OF THE ENZYMES OF SALMONELLA-ANATUM O ANTIGEN BIOSYNTHESIS 4.
THE REACTION KINETICS FOR SALMONELLA-ANATUM O ANTIGEN BIOSYNTHESIS WITH
DERIVATIVES OF BACTERIAL POLY PRENOL AND MORAPRENOL.
SO Bioorganicheskaya Khimiya, (1979) Vol. 5, No. 12, pp. 1863-1872.
CODEN: BIKHD7. ISSN: 0132-3423.
AU KUSOV YU YU [Reprint author]; KISELEVA E V; DANILOV L L; SHIBAEV V N;
KOCHETKOV N K; ROZHNOVA S SH; KILESSO V A
AN 1980:247153 BIOSIS

L76 ANSWER 145 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI SPECIFICITY OF THE ENZYMES FOR THE BIOSYNTHESIS OF SALMONELLA O ANTIGEN 4.
KINETICS OF THE REACTION IN THE BIOSYNTHESIS OF SALMONELLA-ANATUM O
ANTIGEN WITH DERIVATIVES OF BACTERIAL POLY PRENOL AND MORAPRENOL.
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1389-1397.
CODEN: SJBCD5. ISSN: 0360-4497.
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KOCHETKOV N K; ROZHNOVA S SH; KILESSO V A
AN 1981:29671 BIOSIS

L76 ANSWER 146 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
on STN DUPLICATE 66
TI PROPERTIES AND GENETIC-CONTROL OF UDP-L-RHAMNOSE - ANTHOCYANIDIN
3-O-GLUCOSIDE, 6''-O-**RHAMNOSYL-TRANSFERASE** FROM PETALS
OF RED CAMPION, SILENE-DIOICA
SO PHYTOCHEMISTRY, (1979) Vol. 18, No. 4, pp. 659-660.
ISSN: 0031-9422.
AU KAMSTEEG J (Reprint); VANBREDERODE J; VANNIGTEVECHT G
AN 1979:179935 SCISEARCH

L76 ANSWER 147 OF 199 MEDLINE on STN DUPLICATE 67
TI Mutagens in coffee and tea.
SO Mutation research, (1979 Oct) Vol. 68, No. 2, pp. 101-6.
Journal code: 0400763. ISSN: 0027-5107.
AU Nagao M; Takahashi Y; Yamanaka H; Sugimura T
AN 80077824 MEDLINE

L76 ANSWER 148 OF 199 FSTA COPYRIGHT 2006 IFIS on STN
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SO Food Engineering International, (1979), 4 (9) 38

AU Anon.
AN 1980(08):T0390 FSTA

L76 ANSWER 149 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Saponin and sapogenol. XXIV. The structure of Mi-saponin C, a
bisdesmoside of protobassic acid from the seed kernels of *Madhuca*
longifolia (L.) Macbride
SO Chemical & Pharmaceutical Bulletin (1978), 26(4), 1100-10
CODEN: CPBTAL; ISSN: 0009-2363
AU Kitagawa, Isao; Shirakawa, Kiyoharu; Yoshikawa, Masayuki
AN 1978:547152 HCAPLUS
DN 89:147152

L76 ANSWER 150 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 68
TI STRUCTURE AND TASTE OF SOME DI HYDRO CHALCONE GLYCOSIDES.
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CODEN: ABCHA6. ISSN: 0002-1369.
AU KAMIYA S [Reprint author]; KONISHI F; ESAKI S
AN 1978:245610 BIOSIS

L76 ANSWER 151 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI CHEMICAL AND TOXICOLOGICAL STUDIES ON BRACKEN FERN *PTERIDIUM-AQUILINUM-VAR-*
LATIUSCULUM PART 4 SURVEYS ON BRACKEN CONSTITUENTS BY MUTAGEN TEST.
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CODEN: JOPHDQ. ISSN: 0386-846X.
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TAKAHASHI Y; SUGIMURA T
AN 1979:264746 BIOSIS

L76 ANSWER 152 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI The formation of UDP-L-rhamnose from UDP-D-glucose by an enzyme
preparation of red campion (*Silene dioica* (L) Clairv) leaves
SO FEBS Letters (1978), 91(2), 281-4
CODEN: FEBLAL; ISSN: 0014-5793
AU Kamsteeg, John; Van Brederode, Jan; Van Nigtevecht, Gerrit
AN 1978:611013 HCAPLUS
DN 89:211013

L76 ANSWER 153 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
on STN DUPLICATE 69
TI SPECIFICITY OF ENZYMES OF O-ANTIGEN BIOSYNTHESIS IN *SALMONELLA* .1.
INTERACTION OF URIDINE-5' AND 2'-DEOXYURIDINE-5'-DIPHOSPHATE RHAMNOSE WITH
RHAMNOSYLTRANSFERASE FROM *SALMONELLA*-ANATUM
SO BIOORGANICHESKAYA KHIMIYA, (1978) Vol. 4, No. 2, pp. 249-256.
ISSN: 0132-3423.
AU SHIBAEV V N (Reprint); KUSOV Y Y; PETRENKO V A; DRUZHININA T N; KOCHETKOV
N K
AN 1978:83919 SCISEARCH

L76 ANSWER 154 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
TI SPECIFICITY OF THE ENZYMES OF THE BIOSYNTHESIS OF *SALMONELLA* O ANTIGEN 1.
INTERACTION OF UDP RHAMNOSE AND OF 2' DEOXY UDP RHAMNOSE WITH THE
RHAMNOSYL TRANSFERASE OF *SALMONELLA*-ANATUM.
SO Soviet Journal of Bioorganic Chemistry, (1978) Vol. 4, No. 2, pp. 194-200.
CODEN: SJBCD5. ISSN: 0360-4497.
AU SHIBAEV V N [Reprint author]; KUSOV YU YU; PETRENKO V A; DRUZHININA T N;
KOCHETKOV N K
AN 1980:70518 BIOSIS

L76 ANSWER 155 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Application of high fructose corn syrup to canned mandarin orange
SO Kenkyu Hokoku - Ehime-ken Kogyo Shikenjo (1978), 16, 1-5

CODEN: EKSHDQ; ISSN: 0286-1844

AU Bessho, Yasumori; Kodama, Masanobu; Matsumoto, Yasuo; Kubo, Susumu
AN 1979:202418 HCAPLUS
DN 90:202418

L76 ANSWER 156 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Water-insoluble tannin preparations

SO Ger. Offen., 162 pp.

CODEN: GWXXBX

IN Chibata, Ichiro; Tosa, Tetsuya; Mori, Takao; Watanabe, Taizo; Sano, Ryujiro; Matuo, Yuhsi

AN 1977:513899 HCAPLUS

DN 87:113899

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2703615	A1	19770804	DE 1977-2703615	19770128
	DE 2703615	C2	19880811		
	JP 52091898	A2	19770802	JP 1976-8997	19760129
	JP 57052357	B4	19821106		
	JP 53029993	A2	19780320	JP 1976-102894	19760827
	JP 56028147	B4	19810630		
	JP 53056700	A2	19780523	JP 1976-131132	19761030

L76 ANSWER 157 OF 199 FSTA COPYRIGHT 2006 IFIS on STN

TI [Enzyme systems having rhamnosidase activity.]

Enzymsysteme mit Rhamnosidaseaktivitaet.

SO Swiss Patent, (1977)

IN Krasnobajew, V.

AN 1978(05):T0152 FSTA

PI CH 589667

L76 ANSWER 158 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 70

TI Foliage fertilizer for Citrus plants

SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

IN Enomoto, Eiichi

AN 1976:178909 HCAPLUS

DN 84:178909

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 51022576	A2	19760223	JP 1974-91822	19740808

L76 ANSWER 159 OF 199 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Enzymatic flow reactor containing insolubilised enzyme - coupled to a dialdehyde cotton packing.

PI US 430213 A 19760330 (197615)*

US 4013514 A 19770322 (197713)

L76 ANSWER 160 OF 199 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Compsn for improving sugar content of fruit - contains cane sugar, boron powder, calcium chloride, **hesperidinase**.

PI JP 51033067 A 19760319 (197618)*

JP 56037962 B 19810903 (198140)

L76 ANSWER 161 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 71

TI **SYNTHESIS** AND TASTE OF SOME ANALOGS OF **NEOHESPERIDIN**
DIHYDROCHALCONE

SO AGRICULTURAL AND BIOLOGICAL CHEMISTRY, (1976) Vol. 40, No. 9, pp. 1731-1741.

ISSN: 0002-1369.

AU KAMIYA S (Reprint); ESAKI S; KONISHI F

AN 1976:342457 SCISEARCH

L76 ANSWER 162 OF 199 MEDLINE on STN

DUPLICATE 72

TI Liquid chromatography of neohesperidin dihydrochalcone.
 SO Journal of chromatography, (1976 Dec 22) Vol. 129, pp. 31-9.
 Journal code: 0427043. ISSN: 0021-9673.
 AU Schwarzenbach
 AN 77071676 MEDLINE

L76 ANSWER 163 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
 STN
 TI LIQUID CHROMATOGRAPHY OF NEO HESPERIDIN DI HYDRO CHALCONE.
 SO Journal of Chromatography, (1976) Vol. 129, pp. 31-40.
 AU SCHWARZENBACH R
 AN 1977:185954 BIOSIS

L76 ANSWER 164 OF 199 AGRICOLA Compiled and distributed by the National
 Agricultural Library of the Department of Agriculture of the United States
 of America. It contains copyrighted materials. All rights reserved.
 (2006) on STN
 TI **Synthesis** and taste of some analogs of **neohesperidin**
 dihydrochalcone [a new sweetner]
 SO Agric Biol Chem, Sept 1976 Vol. 40, No. 9, pp. 1731-1741. Ref.
 AU Kamiya, S; Esaki, S; Konishi, F
 AN 76:112478 AGRICOLA

L76 ANSWER 165 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Improvement of citrus fruits in quality
 SO U.S., 6 pp.
 CODEN: USXXAM
 IN Ono, Masayuki
 AN 1975:492388 HCAPLUS
 DN 83:92388

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3885949	A	19750527	US 1973-327796	19730129

L76 ANSWER 166 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
 STN
 TI QUANTITATIVE ANALYSIS OF STEVIOSIDE.
 SO Yakugaku Zasshi, (1975) Vol. 95, No. 12, pp. 1507-1511.
 CODEN: YKKZAJ. ISSN: 0031-6903.
 AU SAKAMOTO I; KOHDA H; MURAKAMI K; TANAKA O
 AN 1976:208832 BIOSIS

L76 ANSWER 167 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
 on STN
 TI FACILE **SYNTHESIS** OF CHALCONES AND DIHYDROCHALCONES FROM
 NARINGIN, **NEOHESPERIDIN** AND HESPERIDIN
 SO ZEITSCHRIFT FUR NATURFORSCHUNG SECTION B-A JOURNAL OF CHEMICAL SCIENCES,
 (1975) Vol. 30, No. 7-8, pp. 606-608.
 ISSN: 0932-0776.
 AU LINKE H A B (Reprint); EVELEIGH D E
 AN 1975:286775 SCISEARCH

L76 ANSWER 168 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
 STN
 TI ENZYMATIC HYDROLYSIS OF GINSENG SAPONINS AND THEIR RELATED GLYCOSIDES.
 SO Yakugaku Zasshi, (1975) Vol. 95, No. 2, pp. 246-249.
 CODEN: YKKZAJ. ISSN: 0031-6903.
 AU KOHDA H; TANAKA O
 AN 1975:238102 BIOSIS

L76 ANSWER 169 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Synthesis of thymidine diphosphate rhamnose analogs
 SO Ref. Dokl. Soobshch. - Mendeleevsk. S'ezd Obshch. Prikl. Khim., 11th
 (1975), Volume 6, 111. Editor(s): Rozinskaya, V. N. Publisher: "Nauka",
 Moscow, USSR.

CODEN: 37MOAO

AU Shibaev, V. N.; Kusov, Yu. Yu.; Eliseeva, G. I.; Petrenko, V. A.
AN 1978:191313 HCAPLUS
DN 88:191313

L76 ANSWER 170 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 76

TI Immobilized **hesperidinase** in hesperetin dihydrochalcone
glucoside manufacture

SO Ger. Offen., 10 pp.

CODEN: GWXXBX

IN Krasnobajew, Victor

AN 1975:15272 HCAPLUS

DN 82:15272

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 2402221	A1	19740829	DE 1974-2402221	19740117
	CH 579098	A	19760831	CH 1973-2602	19730222
	NL 7400180	A	19740826	NL 1974-180	19740107
	JP 49116295	A2	19741106	JP 1974-18095	19740214
	FR 2228069	A1	19741129	FR 1974-5744	19740220
	FR 2228069	B1	19780324		
	GB 1404306	A	19750828	GB 1974-7933	19740221
	ES 423449	A1	19760516	ES 1974-423449	19740221

L76 ANSWER 171 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Immobilized water-insoluble enzymes

SO Ger. Offen., 8 pp.

CODEN: GWXXBX

IN Krasnobajew, Victor

AN 1974:117717 HCAPLUS

DN 80:117717

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 2333834	A1	19740131	DE 1973-2333834	19730703
	CH 579533	A	19760915	CH 1972-10422	19720712
	IT 990560	A	19750710	IT 1973-24005	19730511
	ZA 7303252	A	19740327	ZA 1973-3252	19730514
	AT 7304206	A	19750315	AT 1973-4206	19730514
	AT 326813	B	19751229		
	AU 7355789	A1	19741121	AU 1973-55789	19730516
	HU 167605	P	19751128	HU 1973-GI191	19730518
	HU 168032	P	19760228	HU 1973-GI216	19730518
	NL 7309663	A	19740115	NL 1973-9663	19730711
	FR 2192113	A1	19740208	FR 1973-25371	19730711
	JP 49059697	A2	19740610	JP 1973-78241	19730711
	BE 802236	A1	19740114	BE 1973-133381	19730712
	GB 1444395	A	19760728	GB 1973-33288	19730712
	AT 7500163	A	19761115	AT 1975-163	19750110
	AT 337891	B	19770725		
	DK 7501139	A	19750804	DK 1975-1139	19750319
	CH 598278	A	19780428	CH 1975-11455	19750904

L76 ANSWER 172 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN

TI MONURON METABOLISM IN EXCISED GOSSYPIUM-HIRSUTUM LEAVES ARYL HYDROXYLATION
AND CONJUGATION OF 4 CHLOROPHENYL UREA.

SO Phytochemistry (Oxford), (1974) Vol. 13, No. 2, pp. 357-360.

CODEN: PYTCAS. ISSN: 0031-9422.

AU FREAR D S; SWANSON H R

AN 1974:180769 BIOSIS

L76 ANSWER 173 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN

TI IMMOBILIZED **HESPERIDINASE** FROM ASPERGILLUS-NIGER FOR PRODUCING
SUBSTITUTE SWEETENERS DI HYDRO CHALCONES.

SO Abstracts of the Annual Meeting of the American Society for Microbiology,
(1974) Vol. 74, pp. 177.
CODEN: ASMACK. ISSN: 0094-8519.
AU NATARAJAN S; GASKA J; BERNATH F R; BALAJI S; EVELEIGH D E
AN 1974:96257 BIOSIS

L76 ANSWER 174 OF 199 CABA COPYRIGHT 2006 CABI on STN
TI Metabolism of isopropyl-3-chlorocarbanilate by alfalfa plants.
SO Abstracts of Papers 168th National Meeting American Chemical Society,
(1974) pp. PEST 1. Meeting Info.: Abstracts of Papers 168th National
Meeting American Chemical Society.
AU Still, G. G.; Mansager, E. R.
AN 75:114735 CABA

L76 ANSWER 175 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Composition and structure of the O-specific side chain of endotoxin from
Serratia marcescens
SO Biochemistry (1973), 12(2), 309-15
CODEN: BICHAW; ISSN: 0006-2960
AU Wang, C. S.; Alaupovic, P.
AN 1973:68516 HCAPLUS
DN 78:68516

L76 ANSWER 176 OF 199 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights
reserved on STN DUPLICATE 77
TI Metabolism of isopropyl carbanilate by soybean plants.
SO Pesticide Biochemistry and Physiology, (1973) Vol. 3, No. 3, pp. 289-299.
CODEN: PCBPBS
AU Still G.G.; Mansager E.R.
AN 74068299 EMBASE

L76 ANSWER 177 OF 199 FSTA COPYRIGHT 2006 IFIS on STN
TI Soybean metabolism of isopropyl carbanilate.
SO Abstracts of Papers, American Chemical Society, (1973), 166, PEST 8
AU Still, G. G.; Mansager, E. R.
AN 1973(12):J1983 FSTA

L76 ANSWER 178 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 78
TI SOYBEAN SHOOT METABOLISM OF ISO PROPYL-3-CHLORO CARBANILATE O AND P ARYL
HYDROXYLATION.
SO Pesticide Biochemistry and Physiology, (1973) Vol. 3, No. 1, pp. 87-95.
CODEN: PCBPBS. ISSN: 0048-3575.
AU STILL G G; MANSAGER E R
AN 1973:238934 BIOSIS

L76 ANSWER 179 OF 199 CABA COPYRIGHT 2006 CABI on STN
TI Soybean metabolism of isopropyl carbanilate.
SO Abstracts of Papers 166th National Meeting American Chemical Society,
(1973) pp. PEST 8. Meeting Info.: Abstracts of Papers 166th National
Meeting American Chemical Society.
AU Still, G. G.; Mansager, E. R.
AN 75:114074 CABA

L76 ANSWER 180 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Fermentative preparation of **hesperidinase**
SO Jpn. Tokkyo Koho, 4 pp.
CODEN: JAXXAD
IN Nawa, Katsuyuki; Kato, Susumu; Okuda, Asaharu
AN 1972:432728 HCAPLUS
DN 77:32728

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 47010032	B4	19720325	JP 1968-37899	19680603

L76 ANSWER 181 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Food processing and enzyme
 SO Kagaku to Seibutsu (1972), 10(3), 149-66
 CODEN: KASEAA; ISSN: 0453-073X
 AU Fukumoto, Juichiro
 AN 1972:512543 HCAPLUS
 DN 77:112543

L76 ANSWER 182 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 79
 TI Application of hemicellulase, naringinase and **hesperidinase**
 SO Proc. Int. Symp. Convers. Manuf. Foodst. Microorganisms (1972), Meeting
 Date 1971, 53-62 Publisher: Saikon Publ. Co., Ltd., Tokyo, Japan.
 CODEN: 29IVAS
 AU Fukumoto, Juichiro; Tsujisaka, Yoshio; Okada, Shigetaka; Yamamoto,
 Takehiko
 AN 1975:71644 HCAPLUS
 DN 82:71644

L76 ANSWER 183 OF 199 CABA COPYRIGHT 2006 CABI on STN
 TI Metabolism of isopropyl-3-chlorocarbanilate: isolation and
 characterisation of isopropyl-2-hydroxy-5-chlorocarbanilate and
 isopropyl-4-hydroxy-3-chlorocarbanilate from soybean plants.
 SO Abstracts of Papers, 164th National Meeting, American Chemical Society,
 (1972) pp. PEST 31. Meeting Info.: Abstracts of Papers, 164th National
 Meeting, American Chemical Society.
 AU Still, G. G.; Mansager, E. R.
 AN 74:97326 CABA

L76 ANSWER 184 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 80
 TI Prevention of clouding of syrup in which canned orange segments are
 preserved
 SO U.S., 4 pp.
 CODEN: USXXAM
 IN Okada, Shigetaka; Ono, Masayuki
 AN 1970:53904 HCAPLUS
 DN 72:53904

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3484255	A	19691216	US 1966-532726	19660308

L76 ANSWER 185 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Assays for Naringinase, **Hesperidinase**, Anthocyanase, and
 Pectinase
 SO Kagaku to Kogyo (Osaka, Japan) (1969), 43(11), 642-9
 CODEN: KKGOAG; ISSN: 0368-5918
 AU Inoue, Masashi; Okada, Shigetaka
 AN 1970:400373 HCAPLUS
 DN 73:373

L76 ANSWER 186 OF 199 NTIS COPYRIGHT 2006 NTIS on STN
 TI Conversion of Naringin to Neohesperidin and Neohesperidin
 Dihydrochalcone. Patent.
 NR PB-271 138/0/XAB; PAT-APPL-600 067, PATENT-3 375 242
 3p; Filed , patented 26 Mar 1968
 PD 19680326
 AU Horowitz, R. M.; Gentili, B.
 AN 1977(42):06416 NTIS

L76 ANSWER 187 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Dihydrochalcone derivatives and their use as sweetening agents
 SO 3 pp.
 IN Horowitz, Robert M.; Gentili, Bruno
 AN 1963:462815 HCAPLUS
 DN 59:62815

OREF	59:11650c-e				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 3087821		19630430	US 1961-155508	19611128
L76	ANSWER 188 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	The enzymic synthesis of a rhamnose-containing glycolipid by extracts of <i>Pseudomonas aeruginosa</i>				
SO	Journal of Biological Chemistry (1963), 238(8), 2595-602 CODEN: JBCHA3; ISSN: 0021-9258				
AU	Burger, Max M.; Glaser, Luis; Burton, Robert Main				
AN	1963:416483 HCAPLUS				
DN	59:16483				
OREF	59:3031g-h,3032a				
L76	ANSWER 189 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Flavonoid-hydrolyzing enzymes. III. Purification of prunin and hesperetin-7-glucoside-hydrolyzing enzyme				
SO	Nippon Nogei Kagaku Kaishi (1963), 37(3), 146-50 From: Excerpta Med. Sect. II 17(3), Abstr. No. 1594(1964). CODEN: NNKKAA; ISSN: 0002-1407				
AU	Okada, S.; Kishi, K.; Itaya, K.; Fukumoto, J.				
AN	1964:419445 HCAPLUS				
DN	61:19445				
OREF	61:3358c-e				
L76	ANSWER 190 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Flavonoid-hydrolyzing enzymes. II. Substrate specificities of naringinase I and hesperidinase I				
SO	Nippon Nogei Kagaku Kaishi (1963), 37(3), 142-5 CODEN: NNKKAA; ISSN: 0002-1407				
AU	Okada, Shigetaka; Kishi, Kiyoshi; Higashihara, Masataka; Fukumoto, Juichiro				
AN	1965:67779 HCAPLUS				
DN	62:67779				
OREF	62:12081d-h,12082a-b				
L76	ANSWER 191 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Flavonoid-hydrolyzing enzymes. I. Crystallization of naringinase I and hesperidinase I and their actions				
SO	Nippon Nogei Kagaku Kaishi (1963), 37(2), 84-9 CODEN: NNKKAA; ISSN: 0002-1407				
AU	Okada, Shigetaka; Kishi, Kiyoshi; Higashihara, Masataka; Fukumoto, Juichiro				
AN	1965:67778 HCAPLUS				
DN	62:67778				
OREF	62:12081d-h,12082a-b				
L76	ANSWER 192 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Phenolic glycosides of grapefruit; a relation between bitterness and structure				
SO	Archives of Biochemistry and Biophysics (1961), 92, 191-2 CODEN: ABBIA4; ISSN: 0003-9861				
AU	Horowitz, Robert M.; Gentili, Bruno				
AN	1961:60135 HCAPLUS				
DN	55:60135				
OREF	55:11555a-d				
L76	ANSWER 193 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN				
TI	Hesperidin-decomposing enzyme of mold				
SO	Eiyo Shokuryo Gakkaishi (1956), 8, 231-4 CODEN: EISHA9; ISSN: 0367-0554				
AU	Inagaki, Choten; Fukuba, Hiroyasu; Koike, Hiroko				
AN	1961:49322 HCAPLUS				
DN	55:49322				

OREF 55:9559d-f

L76 ANSWER 194 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
TI Prevention of the development of white turbidity of canned citrus fruits
IN Inagaki, Naganori; Fukuba, Hiroyasu
AN 1956:66308 HCAPLUS
DN 50:66308

OREF 50:12349c-e

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 30000390		19550126	JP	

L76 ANSWER 195 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN

TI The enzymes of Pythiacystis citrophthora Sm. and Sm

SO Hilgardia (1927), 3, 27-40

CODEN: HILGA4; ISSN: 0073-2230

AU Klotz, L. Joseph

AN 1928:8019 HCAPLUS

DN 22:8019

OREF 22:968c-e

L76 ANSWER 196 OF 199 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Clouding of canned mandarin oranges prevented - by treatment with stable
hesperidinase.

PI JP 47024739 B (197228)*

L76 ANSWER 197 OF 199 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI **Hesperidinase** prodn - by submerged fermentation of aspergillus
organisms.

PI JP 47010032 B (197213)*

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(2006) on STN

TI Delphinidin accumulation is associated with abnormal flower development in
petunias.

SO Phytochemistry, p. 2219-2227

ISSN: 0031-9422

AU Ando, T.; Takahashi, M.; Nakajima, T.; Toya, Y.; Watanabe, H.; Kokubun,
H.; Tatsuzawa, F.

AN 2004:56312 AGRICOLA

L76 ANSWER 199 OF 199 LIFESCI COPYRIGHT 2006 CSA on STN

TI Genetic sequences encoding glycosyltransferase enzymes and uses therefor

SO US Patent: 5859334; US CLASS: 800/205; 800/DIG.67; 536/23.2; 536/24.3;
435/320.1; 435/172.3..

AU Brugliera, F.; Holton, T.L.

AN 1999:53859 LIFESCI

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ANSWER SET L76 HAS BEEN SAVED AS 'UDPGRT/A'

=> fil .becpat

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

367.11

367.32

FILES 'BIOTECHDS, HCAPLUS, WPIDS' ENTERED AT 13:38:23 ON 19 APR 2006

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3 FILES IN THE FILE LIST

=> s (l30 or l45 or l60) and wo/pc and pry<=2000 and py>=2001 range=2001,

FILE 'BIOTECHDS'
 37658 WO/PC
 24771 PRY<=2000
 (PRY<=2000)
 128477 PY>=2001
 (PY>=2001)
 L77 0 (L19 OR L34 OR L49) AND WO/PC AND PRY<=2000 AND PY>=2001

FILE 'HCAPLUS'
 302518 WO/PC
 636842 PRY<=2000
 5387912 PY>=2001
 L78 5 (L22 OR L37 OR L52) AND WO/PC AND PRY<=2000 AND PY>=2001

FILE 'WPIDS'
 596401 WO/PC
 1479211 PRY<=2000
 (PRY<=2000)
 4047401 PY>=2001
 (PY>=2001)
 L79 4 (L26 OR L41 OR L56) AND WO/PC AND PRY<=2000 AND PY>=2001

TOTAL FOR ALL FILES
 L80 9 (L30 OR L45 OR L60) AND WO/PC AND PRY<=2000 AND PY>=2001

=> dup rem l80
 PROCESSING COMPLETED FOR L80
 L81 7 DUP REM L80 (2 DUPLICATES REMOVED)

=> d tot

L81 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1
 TI Compositions comprising icariside I and anhydroicaritin and methods for making the same
 SO PCT Int. Appl., 45 pp.
 CODEN: PIXXD2
 IN Lenoble, Rod; Richheimer, Steven L.; Bailey, David T.; Mannila, Coralee G.; Nichols, Rebecca L.
 AN 2002:142532 HCAPLUS
 DN 136:189320

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002013842	A1	20020221	WO 2001-US22700	20010719 <--
W: AU, CA, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
US 6399579	B1	20020604	US 2000-638367	20000815 <--
AU 2001080604	A5	20020225	AU 2001-80604	20010719 <--

L81 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Use of antisense oligonucleotides to glutamine synthetase, aroA, ask, groES and antigen 85 complex genes of Mycobacterium tuberculosis in treatment of infections
 SO PCT Int. Appl., 113 pp.
 CODEN: PIXXD2
 IN Horwitz, Marcus A.; Harth, Gunter; Zamecnik, Paul C.; Tabatadze, David
 AN 2002:906259 HCAPLUS
 DN 138:2188

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002094848	A1	20021128	WO 2002-US15963	20020520 <--
WO 2002094848	C1	20030306		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
 TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 WO 2001046473 A1 20010628 WO 2000-US34688 20001220 <--
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,
 CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH,
 GM, GR, GU, HA, HE, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
 KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
 NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
 TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD,
 RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

L81 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Process for producing purified anthocyanin and crystalline anthocyanin
 SO PCT Int. Appl., 31 pp.
 CODEN: PIXXD2

IN Matsumoto, Hitoshi; Hanamura, Satoshi; Hirayama, Masao
 AN 2002:220810 HCAPLUS
 DN 136:231353

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002022847	A1	20020321	WO 2001-JP7891	20010911 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2001084529	A5	20020326	AU 2001-84529	20010911 <--
CA 2421954	AA	20030311	CA 2001-2421954	20010911 <--
EP 1318201	A1	20030611	EP 2001-963597	20010911 <--
EP 1318201	B1	20051109		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
AT 309262	E	20051115	AT 2001-963597	20010911 <--
US 2004101933	A1	20040527	US 2003-380056	20030311 <--

L81 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2
 TI Extraction of flavonoids from plants
 SO PCT Int. Appl., 46 pp.
 CODEN: PIXXD2

IN Wallace, Robertgerard; Burong, Willfrits Gerald
 AN 2001:526070 HCAPLUS
 DN 135:127161

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001051482	A1	20010719	WO 2001-AU16	20010111 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				

BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2396734	AA	20010719	CA 2001-2396734	20010111 <--
BR 2001007486	A	20021008	BR 2001-7486	20010111 <--
EP 1254131	A1	20021106	EP 2001-901019	20010111 <--
EP 1254131	B1	20051019		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

NZ 519931	A	20030131	NZ 2001-519931	20010111 <--
JP 2004500374	T2	20040108	JP 2001-551864	20010111 <--
AU 769739	B2	20040205	AU 2001-26531	20010111 <--
AT 307126	E	20051115	AT 2001-901019	20010111 <--
US 2003147980	A1	20030807	US 2002-169968	20021022 <--

L81 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Method for producing monoglycosidated flavonoids

SO PCT Int. Appl., 42 pp.

CODEN: PIXXD2

IN Ohrem, Hans-leonhard; Schwaemmle, Achim

AN 2001:598207 HCAPLUS

DN 135:179796

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001059143	A1	20010816	WO 2001-EP1447	20010209 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	DE 10006147	A1	20010816	DE 2000-10006147	20000211 <--
	CA 2400014	AA	20010816	CA 2001-2400014	20010209 <--
	EP 1259632	A1	20021127	EP 2001-903733	20010209 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	BR 2001008273	A	20030305	BR 2001-8273	20010209 <--
	JP 2003522532	T2	20030729	JP 2001-558479	20010209 <--
	US 2003157653	A1	20030821	US 2002-203537	20021204 <--

L81 ANSWER 6 OF 7 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Producing a hybrid glycosylated product comprises transforming host cells with a nucleic acid encoding a glycosyltransferase (GT) and providing an aglycone template (AT) so that the GT transfers sugar moieties to the AT.

PI WO 2001079520 A1 20011025 (200201)* EN 132 C12P019-00 <--

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

AU 2001048588 A 20011030 (200219) C12P019-00 <--

EP 1278881 A1 20030129 (200310) EN C12P019-00 <--

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

US 2003203425 A1 20031030 (200372) C12P021-06 <--

JP 2003530857 W 20031021 (200373) 144 C12N015-09 <--

IN GAISSER, S; LEADLAY, P F; STAUNTON, J

L81 ANSWER 7 OF 7 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

TI Production of flavonoid monoglycosides, used e.g. in food and cosmetics industry, uses enzyme immobilized on carrier for enzymatic hydrolysis of rutinoides.

PI DE 10006147 A1 20010816 (200161)* 10 C12P019-62 <--

WO 2001059143 A1 20010816 (200161) GE C12P019-02 <--
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
 NL OA PT SD SE SL SZ TR TZ UG ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM
 DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
 LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
 SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
 AU 2001031726 A 20010820 (200175) C12P019-02 <--
 EP 1259632 A1 20021127 (200302) GE C12P019-02 <--
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI TR
 BR 2001008273 A 20030305 (200322) C12P019-02 <--
 KR 2003013371 A 20030214 (200339) C12P019-60 <--
 CN 1416470 A 20030507 (200353) C12P019-02 <--
 US 2003157653 A1 20030821 (200356) # C12N009-00 <--
 JP 2003522532 W 20030729 (200358) 44 C12P019-60 <--
 IN OHREM, H; SCHWAEMMLE, A; OHREM, H L; SCHWAMMLE, A

=> d ab 1-7

L81 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1
 AB Comps. for maintaining normal sexual function and treating sexual dysfunction in males and females comprising at least 15% by weight icariside I or at least 3.5% by weight anhydroicaritin, derived from exts. of plants belonging the Epimedium genus, and methods for preparing the same, are provided. The methods comprise subjecting an Epimedium extract to mild acid hydrolysis. Methods for maintaining normal sexual function and treating sexual dysfunction in both males and females are also provided, comprising oral administration of an effective amount of a novel composition of this invention comprising at least 15% by weight icariside I or at least 3.5% by weight anhydroicaritin. For example, a high sagittatosides Epimedium sagittatum extract containing 24.7% total sagittatosides (assayed as icariin) and

8.1% icariin and other expected prenylated flavonol glycosides was mixed with 90% ethanol and hydrolyzed with sulfuric acid. The hydrolyzed mixture was filtered under reduced pressure and the cake was washed with 90% ethanol. The resulting filtered ethanolic hydrolyzate contained 3.75 g of anhydroicaritin and 2.50 g of icariside I. To the filtered hydrolyzate 50% sodium hydroxide solution was added followed by phosphoric acid. Water was added, the mixture was adjusted to pH 4.9 and allowed to sit undisturbed at room temperature for 24 h prior to decanting off the liquid. The resulting solids were macerated using deionized water and filtered under reduced pressure to obtain solids which contained 20% anhydroicaritin and 12% icariside I (anhydroicaritin/icariside I ratio 1.66). The recovery of anhydroicaritin in the precipitation procedure was 94% from the hydrolyzate.

L81 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
 AB Methods of inhibiting the proliferation of Mycobacterium tuberculosis comprising contacting Mycobacterium tuberculosis with an effective amount of a polynucleotide complementary to an mRNA transcript expressed by Mycobacterium tuberculosis are provided. Typical methods of the invention utilize phosphorothioate modified antisense polynucleotides (PS-ODNs) against the mRNA of M.tuberculosis genes such as glutamine synthetase, aroA, ask, groES, and the genes of the Antigen 85 complex. Optionally, the methods employ multiple antisense polynucleotides targeting different Mycobacterium tuberculosis transcripts. In preferred embodiments of the invention, the antisense polynucleotides are complementary to the 5' regions of the Mycobacterium tuberculosis transcripts.

L81 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN
 AB A process for producing purified anthocyanidin glucoside is characterized by cleaving the rhamnose end of anthocyanidin rutinoside with rhamnosidase, converting the anthocyanidin rutinoside component into anthocyanidin glucoside and then purifying and isolating the anthocyanidin

glucoside component; and a crystalline anthocyanidin glucoside salt obtained by further crystallizing the purified anthocyanidin glucoside and a process for producing the same. A process for producing anthocyanidin rutinoside is characterized by cleaving the glucose end of anthocyanidin glucoside in a mixture of anthocyanidin glucoside and anthocyanidin rutinoside with β -glucosidase, eliminating via decomposition of the anthocyanidin glucoside and then purifying and isolating the anthocyanidin rutinoside component; or a crystalline anthocyanidin rutinoside salt obtained by further crystallizing the purified anthocyanidin rutinoside and a process for producing the same.

L81 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2

AB A method of producing an enriched flavonoid aglycon extract from starting material containing a suitable flavonoid glycoside and/or conjugate thereof comprising the steps of: (i) enzymically converting the flavonoid glycoside or conjugate thereof into the flavonoid aglycon; (ii) adjusting the pH to render the flavonoid aglycon soluble and removing the insol. fraction; and (iii) adjusting the pH to render the soluble flavonoid aglycon relatively insol. and forming an extract containing the same. Dried leaves of clover were ground and extracted with 5M sodium hydroxide solution at pH = 9.6 and then filtered. The pH of the solution was adjusted to 5.3, then concentrated and the remaining solution and precipitate was filtered. The precipitate was dried and the isoflavone contents measured. The amount of isoflavones obtained from 25 g of clover leaves was 0.128 g.

L81 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2006 ACS on STN

AB The invention relates to a method for producing monoglycosidated flavonoids by enzymic hydrolysis of rutinosides, using an enzyme immobilized on a carrier for the enzymic hydrolysis. The inventive method reduces the costs for the enzymes, and simultaneously provides for a high degree of automation associated and an optimized space/time yield. Thus, naringinase was immobilized on a magnetic silica gel particle using the crosslinking agent 3-aminopropyltriethoxy silane. The immobilized enzyme was then employed in a magnetic stirred tanked bioreactor to convert rutin to isoquercetin with a yield of 86%.

L81 ANSWER 6 OF 7 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

AB WO 200179520 A UPAB: 20020105

NOVELTY - Producing (M1) a hybrid glycosylated product (I) by transferring one or more sugar moieties (SM) to an
(a) transforming microorganism host cells (III) with a nucleic acid encoding a glycosyltransferase (GT); and
(b) providing an AT to the GT so that GT transfers SM to the AT to produce (I); where SM, the AT, the GT or (III) are heterologous to the other components.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a hybrid glycosylation product (IV) as obtained by (M1);
- (2) a host cell (III) transformed with a nucleic acid encoding a GT, where the GT is heterologous to the host cells;
- (3) an expression cassette (V) comprising one or more GT genes and one or more auxiliary genes, linked under the control of a promoter; and
- (4) producing (V) comprising linking the genes together under the control of a promoter, which further comprises transforming a host cell with (V) and expressing the genes comprised within it to produce the GT and proteins encoded by the auxiliary genes.

USE - For producing a hybrid glycosylated product (I). (M1) may also be used to produce a library (L) comprising a number of hybrid glycosylated products, where (L) may be screened for a product having a desired characteristic. Preferably, (L) comprises at least two, 10 and especially at least 100 different hybrid glycosylated products. Furthermore, producing (L) may comprise isolating a host cell producing a desired product, culturing the cell and isolating the product. Endogenous

polyketide synthesis may be suppressed by culturing the cells in the presence of a suppressor. Alternatively, the polyketide biosynthesis may be suppressed by mutating, deleting or inactivating one or more polyketide synthase (PKS) genes naturally present within the cells (all claimed).

Glycosylation is important for the bioactivity of many natural products, including antibacterial compounds such as the polyketide erythromycin A and the glycopeptide vancomycin, and antitumor compounds such as the aromatic polyketide daunorubicin and the glycopeptide-polyketide bleomycin.

ADVANTAGE - The cloned glycosyltransferase when rapidly screened for their ability to attach to a range of activated sugars to a range of exogenously supplied or endogenously generated aglycone templates, show a flexibility towards both aglycone and sugar substrates, and that this process allows the production of glycosylated polyketides in good yield. This overcomes the problem not only of supplying novel sugar attachments to individual polyketides, including polyketides altered by genetic engineering, but also of increasing the diversity of polyketide libraries by combinatorial attachment of sugars.

Dwg.0/37

L81 ANSWER 7 OF 7 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

AB DE 10006147 A UPAB: 20030906

NOVELTY - Production of flavonoid monoglycosides by enzymatic hydrolysis of rutinoides comprises using an enzyme immobilized on a carrier for enzymatic hydrolysis.

USE - Flavonoids and their mixtures, including the monoglycosides, are used e.g. in the food and cosmetics industry.

ADVANTAGE - Flavonoid monoglycosides, e.g. isoquercetin, which are absorbed well by the human body, can be prepared from naturally-occurring bisglycosides by direct enzymatic hydrolysis in solution but this is impractical on the technical scale, as the enzyme cannot be recycled. Using immobilized enzyme is more cost-effective. It allows continuous operation with a high degree of automatization and high productivity and selectivity.

Dwg.0/1

=> d ab

17,19,21,23,26,36,42,44,51,55,56,61,65,66,68,71,76,79,83,97,101,110,152,170,173,188
176

L76 ANSWER 17 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
on STN DUPLICATE 7

AB The diacetylated lactonic sophorolipid from *Candida bombicola* was converted into the deacetylated acidic form by alkaline hydrolysis and subsequently treated with several glycosidases. One of these enzymes, a **hesperidinase** (E.C. 3.2.1.40), was most active in the specific release of one glucose molecule from the disaccharide lipid. The novel glucolipid was isolated and characterized. The surface and interfacial tension of aqueous solutions were measured and compared with the lactonic and acidic sophorolipid.

L76 ANSWER 19 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN

AB A review with no refs. which discusses carbohydrate hydrolyzing "carbohydrases". Carbohydrases with established applications in the food processing industry including α -amylase, cellulase and invertase, and carbohydrases with specialty applications including anthocyanase and **hesperidinase** are also discussed.

L76 ANSWER 21 OF 199 MEDLINE on STN DUPLICATE 8

AB Biosurfactants containing rhamnose and beta-hydroxydecanoic acid and called rhamnolipids are reviewed with respect to microbial producers, their physiological role, biosynthesis and genetics, and especially their microbial overproduction, physicochemical properties and potential applications. With *Pseudomonas* species, more than 100 g l⁻¹ rhamnolipids were produced from 160 g l⁻¹ soybean oil at a volumetric productivity of

0.4 g l⁻¹ h⁻¹. The individual rhamnolipids are able to lower the surface tension of water from 72 mN m⁻¹ to 25-30 mN m⁻¹ at concentrations of 10-200 mg l⁻¹. After initial testing, rhamnolipids seem to have potential applications in combating marine oil pollution, removing oil from sand and in combating zoosporic phytopathogens. Rhamnolipids are also a source of L-rhamnose, which is already used for the industrial production of high-quality flavor components.

L76 ANSWER 23 OF 199 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
 AB The preparation of an alpha-monoglucosyl-hesperidin-rich substance (I) is claimed and comprises adding glucoamylase (EC-3.2.1.3) and alpha-L-rhamnosidase (EC-3.2.1.40) simultaneously or successively to a solution containing alpha-glucosyl-hesperidin and hesperidin; and collecting the precipitated (I) ((I) is extracted using a lower alcohol). (I) is part of the bioflavonoid complex which is useful as a capillary protectant. The process gives highly water soluble (I), almost free from hesperidin, beta-monoglucosyl-hesperetin and hesperetin (the product contains at least 80% (I)). In an example, **hesperidinase** (2g) was added to a mixture of 72% hesperidin and 28% (I) (prepared from 50 g hesperidin), the mixture adjusted to pH 4 and reacted at 55 deg for 24 hr. Glucoamylase (1 g) was added and the mixture reacted at 55 deg for 24 hr. A fraction (12 g) was obtained, by HPLC and using a XAD-7 column, containing 98% weight (I), 1 wt% beta-monoglucosyl-hesperetin and 1 wt% others. (35pp)

L76 ANSWER 26 OF 199 MEDLINE on STN DUPLICATE 9
 AB The Mycobacterium avium complex is a source of disseminated infections in patients with advanced AIDS. This group of mycobacteria is distinguished by the presence of highly antigenic, surface-exposed glycopeptidolipids, and these glycolipids possess variant oligosaccharide structures that are the chemical basis of the 28 distinct serovars of the M. avium complex. We previously described the ser2 gene cluster, encoding the synthesis of the haptenic oligosaccharide (2, 3-dimethylfucose-rhamnose-6-deoxytalose-) of the serovar 2-specific glycopeptidolipid, and revealed a locus (ser2A) encoding a putative **rhamnosyltransferase**. Sequencing of the ser2A locus demonstrated the presence of three open reading frames, two of which yielded significant homology to several glycosyltransferases, and the deduced amino acid sequences of these two putative glycosyltransferases had 63% identity. These two genes were expressed in Mycobacterium smegmatis, and the resulting recombinant glycopeptidolipids were characterized by thin-layer chromatography and gas chromatography-mass spectrometry. These analyses demonstrated that only one of these genes, termed rtfA, encoded the **rhamnosyltransferase** responsible for the transfer of rhamnose to 6-deoxytalose. The identification of rtfA will permit further evaluation of glycopeptidolipid biosynthesis and the construction of isogenic mutants of multiple M. avium complex serovars. Moreover, such mutants will help define the role of glycopeptidolipids in the intracellular survival of these bacteria.

L76 ANSWER 36 OF 199 FSTA COPYRIGHT 2006 IFIS on STN
 AB Properties of neohesperidine DC, a sweetness and flavour enhancing dihydrochalcone **produced** from **neohesperidin** and marketed worldwide under the trade name CitrosaO, are discussed. Aspects covered include: origin, related substances and production; solubility and stability; sensory properties; and the regulatory history of neohesperidine DC. [Further presentations from this meeting are covered in electronic formats of the FSTA database and may be traced via the corporate authors (CA) field, under Food Ingredients Europe [Symposium]. See also 1999-Aa180.]

L76 ANSWER 42 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 17
 AB The levels of the flavanones, neohesperidin and naringin, and the neohesperidin/naringin ratio in immature and mature fruit of different varieties of Citrus aurantium and the Citrus paradisi Macf. x Citrus

depressssa Hayata hybrid are compared, and the flavonic content is analysed for the first time. Fruits of the hybrid, which are used to obtain neohesperidin for industrial-scale transformation into the intensely sweet neohesperidin dihydrochalcone, have two advantages: (1) although the levels of neohesperidin in the hybrid are similar to those detected in the immature fruit of *Citrus aurantium*, the levels of naringin detected in the immature fruit of the hybrid are lower, which means that the neohesperidin/naringin ratio is greater and the need for costly neohesperidin purification processes correspondingly less; (2) unlike the mature fruit of *Citrus aurantium*, the mature fruits of the hybrid accumulate high levels of neohesperidin with a high neohesperidin/naringin ratio, so that these too can be used to obtain neohesperidin. (C) 1997 Published by Elsevier Science Ltd.

L76 ANSWER 44 OF 199 CABA COPYRIGHT 2006 CABI on STN

AB The fruit flavanone contents of some lesser known citrus cultivars grown in Cuba were determined during a search for citrus species/cultivars with high flavanone contents. Mandarin cv. Galleta has a higher hesperidin content than the hybrid mandarin Nova, which is currently being used for the commercial production of this flavanone. The grapefruit cultivar Isaac had higher naringin levels than reported in the literature for any citrus species or cultivar. These two species seem potential candidates for the industrial production of flavanones. With regard to **neohesperidin**, the Afin and Bouquet de Fleur sour orange cultivars from Spain appear to be the best choices. A preliminary study indicated that the high flavanone contents resulted from the genetic characteristics of the cultivars, rather than from climatic effects.

L76 ANSWER 51 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN

AB Anal. methods for fruit and fruit products are discussed. Topics include detection of added invert sugars by LC with pulsed amperometric detection, beet sugar in fruit juices by site-specific natural isotope fractionation-NMR, detection of added C4 sugars in fruit juices, benzoic acid in orange juice, D-malic acid in apple juice by LC, fruit acids, anthocyanin pigment anal. of fruit juices by LC, major metals in orange juice by atomic absorption, isotope methods in fruit **products**, and naringin and **neohesperidin** in orange juice to detect the presence of grapefruit juice.

L76 ANSWER 55 OF 199 MEDLINE on STN

AB Biosurfactants are of increasing interest due to their broad range of potential applications. A large variety of microbial surfactants is known at present, some of which may be used for specific applications. Towards the large scale industrial production of biosurfactants, the physiology, biochemistry and genetics of biosurfactant synthesis has to be well understood. A fully integrated process has to be developed, allowing high productivities under optimized conditions. In the past few years, we have investigated the molecular biology of rhamnolipid biosynthesis have been partially purified and characterized. The structural and regulatory genes encoding the rhamnolipid synthesis pathway have been isolated and characterized. The knowledge of the complex mechanisms involved in rhamnolipid synthesis facilitates the overproduction of these extracellular compounds. Furthermore, the transfer of the relevant genes into other species allows the production of rhamnolipids in heterologous hosts under controlled conditions. An integrated process for the production of rhamnolipids on an industrial scale has been developed. This process involves continuous cultivation under optimized media and growth conditions and makes use of refined methods of cell recycling, gas exchange and downstream processing, thus allowing high yields and productivities.

L76 ANSWER 56 OF 199 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

AB *Rubus pinfaensis* (Lao Xongboa) is a medicinal plant used to promote wound healing. Triterpenoids with anabiotic activity were isolated and characterized as active ingredients from *R. pinfaensis*. Unsaturated

E-ring compounds, occurring as minor constituents showed the greatest activity. To make these more available, transformation of the main naturally occurring 19- α -hydroxyursene glycoside formula (I) (R = glucose) to unsaturated E-ring analogs was studied. The 28-glycosidic bond was converted with **hesperidinase** or acid to aglycone (2) ((I) with R = H). Selective removal of the 19- α -hydroxy group from either (I) or (III) ((I) with R = CH₃) was achieved by treatment with FeCl₃ to give, respectively, delta-19-glycoside (IV) (formula (II) with R = glucose, R' = H), which occurred naturally in the plant, or delta-19-28-oate (V) ((II) with R = CH₃, R' = H). Acid hydrolysis of (IV) gave delta-19-aglycone (VI) ((II) with R = H, R' = H) and a rearranged product. Complete chromatographic purification and characterization was achieved after conversion of both (V) and (VI) into the previously prepared methyl triacetate derivative (VIII) ((II) with R' = Ac). (3 ref)

L76 ANSWER 61 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
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AB The high-level production of rhamnolipid biosurfactants is a unique feature of *Pseudomonas aeruginosa* and is strictly regulated in response to environmental conditions. The final step in rhamnolipid biosynthesis is catalyzed by the *rhlAB* genes encoding a **rhamnosyltransferase**. The expression of the cloned *rhlAB* genes was studied in heterologous hosts, either under the control of the *rhlR* and *rhlI* rhamnolipid regulatory elements or under the control of the *tac* promoter. A recombinant *P. fluorescens* strain harboring multiple plasmid-encoded copies of the rhamnolipid gene cluster produced rhamnolipids (0.25 g liter⁻¹) when grown under nitrogen limiting conditions. The highest yields (0.6 g liter⁻¹) and productivities (24 mg liter⁻¹ h⁻¹) were obtained in a recombinant *Pseudomonas putida* strain, KT2442, harboring promoterless *rhlAB* genes fused to the *tac* promoter on a plasmid. Active **rhamnosyltransferase** was synthesized, but no rhamnolipids were produced, by recombinant *Escherichia coli* upon induction of *rhlAB* gene expression.

L76 ANSWER 65 OF 199 FSTA COPYRIGHT 2006 IFIS on STN

AB Biosurfactants are of increasing interest due to their broad range of potential applications, e.g. use as stabilizers in the food industry. Production of rhamnolipid surfactants by *Pseudomonas* spp. is reviewed. Aspects considered are: *Pseudomonas aeruginosa* rhamnolipids (rhamnolipid composition, biosynthesis and regulation); biochemistry of rhamnolipid biosynthesis (**rhamnosyltransferase** assay, **rhamnosyltransferase** activity in *P. aeruginosa* extracts, characterization of **rhamnosyltransferases**); genetics of rhamnolipid synthesis (mutants affected in rhamnolipid synthesis, properties of genes involved in rhamnolipid biosynthesis and their gene products, regulation of rhamnolipid gene expression, production of rhamnolipids in recombinant hosts); prospects and limits for the industrial production of rhamnolipids; medium design (effects of C source, N and Fe on rhamnolipid production); and development of an integrated process (cell recycling, gas exchange, downstream processing, operating results).

L76 ANSWER 66 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation
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AB **Neohesperidin** dihydrochalcone (neohesperidine DC) is an intense sweetener which is **produced** by hydrogenation of **neohesperidin**. It is several hundred times sweeter than sucrose and its sweetening profile in water is characterised by a delay before reaching its maximum intensity and a licorice-like aftertaste. When used at low levels in combination with other intense or bulk sweeteners, neohesperidine DC enhances the quality of the sweetness given to the food, as well as contributing beneficially to its flavour and mouthfeel. Its stability properties have been evaluated in aqueous buffer solutions and in several foods and beverages, proving to be stable under most food

processing and storage conditions. International acceptance of neohesperidine DC was manifested by a favourable assessment and the allocation of an ADI by the Scientific Committee for Foods of the European Union.

L76 ANSWER 68 OF 199 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
AB An isolated nucleic acid molecule is claimed, comprising a sequence of nucleotides encoding or complementary to a sequence encoding a plant flavonoid glycosylating enzyme having the characteristics of a glycosyltransferase (GT) or a functional part of a derivative of the GT. The GT may be a flavonoid-5-glucosyltransferase (5GT) or an anthocyanidin-3-glucoside-**rhamnosyltransferase** (3RT). Also claimed are: i. an isolated nucleic acid molecule which encodes a RT of plant origin; ii. a vector comprising the nucleic acid molecule; iii. an oligonucleotide probe capable of hybridizing under low stringency conditions to part of the nucleotide sequence or its complementary form; iv. a transgenic plant capable of expressing a non-indigenous flavonoid glycosylating enzyme having the characteristics of a G7 or a functional part or derivative. The DNA encoding 3RT is isolated from a cDNA gene bank prepared from RNA isolated from *Petunia hybrida*. The nucleic acid was used for producing transgenic flowering plants capable of exhibiting altered inflorescence properties including modified petal colors. (76pp)

L76 ANSWER 71 OF 199 MEDLINE on STN DUPLICATE 24
AB Transposon Tn5-GM-induced mutant strains of *Pseudomonas aeruginosa* which are unable to produce rhamnolipid biosurfactants and lack **rhamnosyltransferase** activity have been isolated. The DNA regions flanking the transposon were cloned and used as specific probes for the isolation of the corresponding wild-type genes from a *P. aeruginosa* wild-type cosmid gene library. Single cosmid clones capable of restoring rhamnolipid synthesis in the mutant strains were isolated and further subcloned and sequenced, resulting in the identification of two genes (*rhlAB*) which are organized as an operon upstream of the previously identified *rhlR* regulatory gene. The *RhlA* protein (32.5 kDa) harbors a putative signal sequence, suggesting that this protein is located in the periplasm, while the *RhlB* protein (47 kDa) contains at least two putative membrane-spanning domains. The expression of the *rhlAB* genes was found to be enhanced 20-fold during the stationary phase of growth under conditions of nitrogen limitation, as measured by using *rhlA::lacZ* fusions. Moreover, the transcriptional activation of the *rhlAB* genes appears to depend on a functional *RhlR* regulatory protein. The sequence upstream of the *rhlA* promoter contains two inverted repeats which define putative binding sites for the *RhlR* regulator. The controlled expression of the *rhlAB* genes in *Escherichia coli* led to the formation of active **rhamnosyltransferase**. This provides direct evidence for the fact that the **rhamnosyltransferase** encoding genes have been identified.

L76 ANSWER 76 OF 199 MEDLINE on STN DUPLICATE 27
AB We have isolated, via differential screening of a *Petunia hybrida* petal cDNA library, a cDNA clone that corresponds to the *Rt* locus which controls the conversion of anthocyanidin-3-glucosides to anthocyanidin-3-rutinosides by the UDP rhamnose: anthocyanidin-3-glucoside **rhamnosyltransferase** (3RT). The cDNA encodes a 469 amino acid long polypeptide with regions of similarity to the UDP glucose: flavonoid glucosyltransferases (3GT) from barley and maize. Some sequence similarity was also observed with non-plant glycosyltransferases. Two aberrant transcripts are present in most of the *rt/rt* *petunia* lines examined. Excision of a transposon from an unstable *Rt* locus of one *petunia* line (*Tr38*) is associated with a change in transcript size back to wild-type. The *Rt* transcript is most abundant in petals from flowers at an early stage of development and levels decline as the flower matures. Transcripts are also detected in the style and anthers but not in leaf, stem, root, petiole, ovary or sepals. Incubation of leaves in glucose under high light conditions induces the expression of the *Rt* gene as well

as other flavonoid pathway genes. In situ hybridization revealed that the Rt transcript predominantly accumulates in the epidermal cells of the petal, the site of anthocyanin accumulation.

L76 ANSWER 79 OF 199 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
AB In a new method, monoglucosyl rutin (MGR) is purified by: reacting alpha-1,6-rhamnosidase (alpha-L-rhamnosidase, EC-3.2.1.40) on a mixture of MGR and rutin, then separating MGR from the reaction mixture; and by reacting glucoamylase (EC-3.2.1.3) and alpha-L-rhamnosidase simultaneously or separately on a mixture of alpha-glucosylated rutin and rutin, and separating MGR from the reaction mixture. The MGR is separated from a mixture of MGR and isoquercetin by crystallization from alcohol. Using this method, high-purity MGR may be separated efficiently from a mixture of alpha-glucosyl rutin and rutin. In an example, a 100 g mixture of alpha-glucosylated rutin and rutin was dissolved in 1 l water, and 1 g ascorbic acid and 1 g glucozyme were added. The pH was adjusted to 4.5 and the reaction was carried out at 55 deg for 24 hr. 1 g **Hesperidinase-2** was added, the pH was adjusted to 4.0, and the reaction was carried out at 55 deg for 24 hr. The solution was subjected to heat treatment, XAD-7 treatment, ethanol extraction and recrystallization from 99% methanol, to give 25 g solid (purity 93%). (8pp)

L76 ANSWER 83 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 31
AB 1-2-Rhamnosyltransferase catalyzes the production of disaccharide-flavonoids that accumulate to 75% of dry weight. Vast energy is expended in a short time span to produce these flavonoids. The highest **rhamnosyltransferase** activities and immunodetected concentrations were observed in early development of Citrus grandis (pummelo), coinciding with up to 13% of fresh weight as naringin. The concentration of naringin in leaves, petals, receptacles, filaments, albedo, and flavedo drops drastically during development and correlates directly with a decrease in the activity and amounts of 1-2-rhamnosyltransferase. Anthers had minute **rhamnosyltransferase** activities and low concentrations of naringin. Conversely, high 1-2-rhamnosyltransferase activity and naringin concentrations appeared in both young and mature ovaries, as well as in young fruits. The total amounts of naringin in mature leaves decreased without detectable in vitro degradation of naringin in leaves. There was still a net accumulation of naringin in the albedo and flavedo of older fruit even though these tissues had only traces of 1-2-rhamnosyltransferase. Traces of enzyme synthesis in fruits, or import of the product from leaves, may explain the net accumulation of naringin in growing fruits. Unlike the late-expressed genes for glycosyltransferases in anthocyanin biosynthesis, the **rhamnosyltransferases** from Citrus are active only in juvenile stages of development.

L76 ANSWER 97 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 40
AB A review with 62 refs. **Neohesperidin** dihydrochalcone can be produced by hydrogenation of **neohesperidin**, and may be used in table-top products, beverages, and various foods because of its sweetness and taste-enhancing properties, its ability to mask bitterness and saltiness, and its stability to almost all conditions.

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L76 ANSWER 110 OF 199 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 47

L76 ANSWER 152 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
AB UDP-4-keto-6-deoxy-D-glucose was an intermediate in the conversion of UDP-D-glucose to UDP-L-rhamnose in S. dioica leaves or petals, suggesting that the same path operates in plants as in microorganisms except that

uridine is used as nucleoside instead of thymidine. The enzymes, UDP-D-glucose-4,6-dehydratase and UDP-L-rhamnose synthetase, were present in partially purified leaf exts. Petals of *S. dioica* plants with a dominant allele of gene N contain cyanidin 3-rhamnosylglucoside, which can be formed in plant protein exts. from UDP-D-glucose-14C, cyanidin 3-glucoside, and NADPH, with the label ending up in the rhamnosyl moiety. Since UDP-4-keto-6-deoxy-D-glucose formation was observed both in plants with the N allele and in homozygous recessive plants, n/n, it is concluded that gene N is not involved in UDP-L-rhamnose synthetase but rather in the production of UDP-L-rhamnose-anthocyanidin 3-O-glucoside 6''-O-rhamnosyltransferase.

- L76 ANSWER 170 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 76
 AB Hesperetin dihydrochalcone glucoside (I), useful as a sweetening agent, was manufactured from hesperidin dihydrochalcone (II) by cleavage of the rhamnosyl residue by **hesperidinase** immobilized on diazotized 4,4'-diaminodiphenylmethane-treated porous glass.
- L76 ANSWER 173 OF 199 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
- L76 ANSWER 188 OF 199 HCAPLUS COPYRIGHT 2006 ACS on STN
 AB cf. CA 56, 13334i. The complete enzymic synthesis of a rhamnolipid by exts. of *P. aeruginosa*, ATCC 7700, is described. The synthesis is shown to occur by the following 3 reactions: 2 β hydroxydecanoyl coenzyme A (CoA) + H₂O \rightarrow β -hydroxydecanoyl- β -hydroxydecanoate + 2 CoA (1); thymidine diphosphate (TDP)-L-rhamnose + β -hydroxydecanoyl- β -hydroxydecanoate \rightarrow TDP + L-rhamnosyl- β -hydroxydecanoyl- β -hydroxydecanoate (2); TDP-L-rhamnose + L-rhamnosyl- β -hydroxydecanoyl- β -hydroxydecanoate \rightarrow TDP + L-rhamnosyl-L-rhamnosyl- β -hydroxydecanoyl- β -hydroxydecanoate (3). The exact pathway of synthesis of β -hydroxydecanoyl- β -hydroxydecanoate was not clarified. The 2 **rhamnosyl transferases** were partially purified and the 1st **rhamnosyl transferase** separated from the 2nd. Some of the properties of these enzymes were described. The cell wall lipopolysaccharide of this strain of *P. aeruginosa* was prepared and shown to contain rhamnose but apparently no β -hydroxydecanoic acid.

=> log y

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